

**AMENDMENTS TO THE AREA DESIGNATIONS
FOR STATE AMBIENT AIR QUALITY STANDARDS
WITH
MAPS OF AREA DESIGNATIONS FOR THE
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**

December 1994

California Environmental Protection Agency



Air Resources Board

**AMENDMENTS TO THE AREA DESIGNATIONS
FOR STATE AMBIENT AIR QUALITY STANDARDS
WITH
MAPS OF AREA DESIGNATIONS FOR THE
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**

STAFF REPORT

**As adopted by the Board
November 9, 1994
Air Resources Board
2020 "L" Street
Sacramento, California**

**California Environmental Protection Agency
Air Resources Board
Technical Support Division
P. O. Box 2815
Sacramento, California 95812**

**This document has been reviewed and approved by the staff of the
California Environmental Protection Agency, Air Resources Board.
Approval does not signify that the contents necessarily reflect
the views and policies of the California Air Resources Board.**

ACKNOWLEDGMENTS

This document was prepared by the staff of the
Air Quality Analysis Section, Technical Support Division.

Principal Author

David Ippe
Technical Support Division

Contributing Staff

Marcella Nystrom - Technical Support Division
Cynthia Garcia - Technical Support Division
Lawrence Larsen - Technical Support Division
Diane Moritz Glazer - Office of Legal Affairs

Reviewed and Approved by:

Debora Popejoy, Manager, Air Quality Analysis Section
Rich Bradley, Chief, Air Quality Data Branch
Terry McGuire, Chief, Technical Support Division

TABLE OF CONTENTS

OVERVIEW AND RECOMMENDATION

A.	Overview	1
1.	Introduction	1
2.	Proposed Amendments to the Area Designations	1
B.	Recommendation	2

CHAPTER I BACKGROUND

A.	Introduction	3
B.	Legal Requirements	3
C.	Summary of the Designation Criteria	4
1.	General Provisions	4
2.	Data to Use	4
3.	Highly Irregular or Infrequent Events	4
4.	Size of Designated Area	5
5.	Designation Categories	5
D.	Implications of the Redesignations	6
1.	Areas Redesignated as Nonattainment	6
2.	Areas Redesignated as Nonattainment-Transitional	7
3.	Areas Redesignated as Attainment	8
E.	The Area Designation Review Process	8

CHAPTER II PROPOSED AMENDMENTS TO THE AREA DESIGNATIONS

A.	Introduction	9
B.	Proposed Area Redesignation for Ozone	9
C.	Proposed Area Redesignations for Carbon Monoxide	10
1.	Santa Clara County	10
2.	Orange County	11
3.	San Joaquin County	11
4.	Stanislaus County	12
D.	Proposed Area Redesignation for Sulfur Dioxide	12
E.	Proposed Area Redesignation for Sulfates	13
F.	Areas Not Recommended for Redesignations	13
1.	Southeast Desert Air Basin	13
2.	San Luis Obispo County	14
3.	Los Angeles County	15

TABLE OF CONTENTS
Continued

CHAPTER III
ALTERNATIVES TO THE PROPOSED AMENDMENTS 17

CHAPTER IV
IMPACTS OF THE PROPOSED AMENDMENTS

A. Environmental Impacts 19
B. Economic Impacts 19

CHAPTER V
DOCUMENTS RELIED UPON 21

ATTACHMENTS

A. Relevant Sections of the Health and Safety Code A-1
B. Maps and Tables of the Area Designations for State and National
Ambient Air Quality Standards B-1
C. Text of the Proposed Amendments to the Area Designations C-1
D. Text of the Designation Criteria D-1
E. Expected Peak Day Concentrations and Designation Values E-1
F. Supporting Documents F-1

OVERVIEW AND RECOMMENDATION

A. OVERVIEW

1. Introduction

The Health and Safety Code section 39607(e) requires the Air Resources Board (ARB or Board) to establish designation criteria. These criteria provide the basis for the Board to designate areas as nonattainment, attainment, or unclassified for the state ambient air quality standards, as required by the Health and Safety Code section 39608.

The Board is required by Health and Safety Code section 39608(c) to review the area designations annually. Based on the most recently available air quality data, the ARB staff recommends several amendments to the area designations. The proposed amendments are based on air quality data from 1991 through 1993. These amendments are summarized in subsection 2, which follows.

In addition to the recommendations for area redesignations, this report includes maps and tables of the area designations for both the state and national ambient air quality standards (refer to Attachment B). These maps and tables reflect the area redesignations proposed in this Staff Report.

2. Proposed Amendments to the Area Designations

The proposed amendments to the area designations (California Code of Regulations (CCR), Title 17, sections 60200 through 60209) would make the following changes to the regulations:

- Identify the redesignation of Mono County in the Great Basin Valleys Air Basin to nonattainment-transitional for ozone that occurred by operation of law. Currently, Mono County is designated as nonattainment for ozone.
- Redesignate Santa Clara County in the San Francisco Bay Area Air Basin as attainment for carbon monoxide. Currently, the San Jose Urbanized Area is designated as nonattainment-transitional, while the remainder of the County is designated as attainment for carbon monoxide.
- Redesignate Orange County in the South Coast Air Basin as attainment for carbon monoxide. Currently, Orange County is designated as nonattainment for carbon monoxide.
- Redesignate San Joaquin County in the San Joaquin Valley Air Basin as attainment for carbon monoxide. Currently, the Stockton Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified for carbon monoxide.

- Redesignate Stanislaus County in the San Joaquin Valley Air Basin as attainment for carbon monoxide. Currently, the Modesto Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified for carbon monoxide.
- Redesignate the Southeast Desert Air Basin (SEDAB) portion of Kern County as attainment for sulfur dioxide. Currently, the SEDAB portion of Kern County is designated as unclassified for sulfur dioxide.
- Redesignate the South Coast Air Basin as attainment for sulfates. Currently, the South Coast Air Basin is designated as nonattainment for sulfates.

B. RECOMMENDATION

The ARB staff recommends the Board adopt the proposed amendments to the area designations. The full text of the proposed amendments is given in Attachment C of this Staff Report.

CHAPTER I BACKGROUND

A. Introduction

This chapter gives some background information on the criteria used for making the area designations and also, the area designations themselves. The following sections describe the legal requirements, the criteria used for making the area designations, the implications of being redesignated, and the area designation review process.

B. Legal Requirements

Health and Safety Code (HSC) section 39607(e) (refer to Attachment A) requires the Board to establish and periodically review the criteria for designating areas as nonattainment or attainment for the state ambient air quality standards (state standards; refer to Attachment B). The Board originally adopted the required designation criteria in June of 1989. The Board subsequently amended the designation criteria in June 1990, May 1992, December 1992, and November 1993.

HSC section 39608 (refer to Attachment A) requires the Board to use the designation criteria in designating areas of California as nonattainment or attainment with respect to the state standards (refer to Attachment B). Areas that cannot be designated as nonattainment or attainment are designated as unclassified. The area designations are made on a pollutant-by-pollutant basis, for all pollutants listed in the CCR, Title 17, section 70200. The nine affected pollutants are ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulate matter or PM10, sulfates, lead, hydrogen sulfide, and visibility reducing particles. The HSC requires the Board to review the area designations each year and update them as new information becomes available.

HSC section 40718 (refer to Attachment A) requires the Board to publish maps that identify areas where one or more violations of any state or national ambient air quality standard have been measured. Attachment B contains maps and tables which summarize the areas designated as nonattainment, nonattainment-transitional, attainment, or unclassified for the state standards, and reflects the proposed redesignations. These maps and tables reflect the area redesignations proposed in this Staff Report. Attachment B also contains maps and tables which summarize areas designated as nonattainment, attainment, or unclassified for the national standards as promulgated by the United States Environmental Protection Agency.

C. Summary of the Designation Criteria

1. General Provisions

The current designation criteria comprise CCR, Title 17, sections 70300 through 70306, including Appendices 1 through 4, thereof (refer to Attachment D). The designation criteria describe the procedures the Board must use to determine an area's designation status with respect to the state standards. In summary, the designation criteria specify:

- The data the Board will use for making the area designations;
- How the Board will determine the size of the designated areas;
- How the Board will determine whether an area qualifies for designation as nonattainment, attainment, or unclassified; and
- The requirement for an annual review of the area designations by the Board's Executive Officer.

2. Data to Use

To the extent possible, the Board makes area designations for each pollutant based on recent ambient air quality data. The air quality data must be "data for record," which are those air quality data that satisfy specified siting and quality assurance procedures established by the United States Environmental Protection Agency. Generally, data for record are those data collected by or under the direction of the Board and the air pollution control or air quality management districts (districts). When adequate recent air quality data are not available, the Board may use other types of information to determine an appropriate area designation. These other types of information may include historical air quality data, emissions data, meteorological or topographical data, and data relating to the amounts and distributions of population or emissions.

3. Highly Irregular or Infrequent Events

When area designations for state standards are based on ambient air quality data, the designation criteria provide for excluding unusual values. In particular, the designation criteria provide for excluding exceedances affected by highly irregular or infrequent events because it is not reasonable to mitigate these exceedances through the regulatory process. Appendix 2 to the designation criteria (refer to Attachment D) defines two types of highly irregular or infrequent events:

- 1) Exceptional Events, and
- 2) Extreme Concentration Events.

An **exceptional event** is a specific, identifiable event that causes or contributes significantly to an exceedance of a state standard. An exceptional event may be caused by an act of nature (for example, a severe

wind storm, volcanic eruption, or stratospheric ozone intrusion) or it may be of human origin (for example, a chemical spill or industrial accident).

In contrast, an **extreme concentration event** does not have a specific, identifiable cause but is based on a statistical procedure which calculates the concentration that is not expected to recur more frequently than once per year. This value is often referred to as the Expected Peak Day Concentration. Adverse meteorology is one potential cause of an extreme concentration event. Measured concentrations that are higher than the Expected Peak Day Concentration are excluded as extreme concentrations.

The Expected Peak Day Concentration is calculated on a site-by-site basis, using data for a three-year period. The Expected Peak Day Concentrations for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, PM10, sulfates, and hydrogen sulfide are listed in Attachment E. The Expected Peak Day Concentrations listed in Attachment E are based on air quality data for 1991 through 1993. This is the most recent three-year period for which data are available and the same three-year period used in reviewing the area designations discussed in this Staff Report. Note that the Expected Peak Day Concentrations are not given for lead because all areas in California are currently designated as attainment for the state lead standard. Furthermore, the Expected Peak Day Concentrations also are not given for visibility reducing particles because the available data are not sufficient for calculating the Expected Peak Day Concentrations for this pollutant.

4. Size of the Designated Area

The size of the area designated for a pollutant may vary depending on the nature of the pollutant, the location of contributing emission sources, the meteorology, and the topographic features. Generally, an air basin is the area designated for ozone, nitrogen dioxide, PM10, sulfates, and visibility reducing particles. A county (or the portion of a county located within an air basin) generally is the area designated for carbon monoxide, sulfur dioxide, lead, and hydrogen sulfide. In both cases, however, the Board may designate a smaller area if the Board finds that the smaller area has distinctly different air quality, resulting from sources and conditions that do not affect the entire air basin or county. To the extent practical, the designation criteria require the Board to define the designated areas using political boundary lines.

5. Designation Categories

The designation criteria specify three major categories of designation: nonattainment, attainment, and unclassified. The Board will designate an area as nonattainment for a pollutant if air quality data show that a state standard for that pollutant was violated at least once during the previous

three calendar years.¹ Exceedances that are affected by highly irregular and infrequent events are not considered to be violations of a state standard and are not used as a basis for designating areas as nonattainment.

The designation criteria specify a subcategory of nonattainment which is called nonattainment-transitional. The Board will designate an area as nonattainment-transitional for a pollutant other than ozone if air quality data show that a state standard for that pollutant was violated two or fewer times at each of the sites in the area during the previous calendar year. In addition, an evaluation of recent air quality data trends and meteorological and emissions data must show that air quality either has stabilized or improved. Finally, the area must be expected to reach attainment for the pollutant within three years.

The nonattainment-transitional designation can also apply for ozone. Under HSC section 40925.5 (refer to Attachment A), the nonattainment-transitional designations for ozone are made by operation of law. Specifically, an area is designated as nonattainment-transitional for ozone, by operation of law, if air quality data show that the state ozone standard was exceeded three or fewer times at each of the sites in the air basin during the most recent year for which air quality data are available.

The Board will designate an area as attainment for a pollutant if the data show that the state standard for that pollutant was not violated during the previous three calendar years. Again, exceedances affected by highly irregular or infrequent events are not considered violations. As a result, an area may have measured concentrations that exceed a state standard and still be designated as attainment. Finally, the Board will designate an area as unclassified for a pollutant if the available data do not support a designation of nonattainment or attainment.

D. Implications of the Redesignations

1. Areas Redesignated as Nonattainment

A district that includes an attainment or unclassified area that is redesignated as nonattainment (a nonattainment district) experiences two principal consequences under the law. First, state law requires the nonattainment districts for ozone, carbon monoxide, nitrogen dioxide, and

1. The terms "exceedance" and "violation" are used throughout this Staff Report. Because the two terms are closely related, they can be confusing. In this report, the term "exceedance" refers to a measured pollutant concentration that is higher than the level of the state standard. The term "violation" refers to an exceedance that was not significantly affected by a highly irregular or infrequent event (refer to Attachment D). Violations are considered in the area designation process.

sulfur dioxide to develop plans for attaining the state standards for these pollutants. The nonattainment districts must submit these attainment plans to the Board for approval (HSC section 40911). Ozone nonattainment districts that are impacted by overwhelming transport from upwind areas (in other words, all of the ozone violations are determined to be caused by emissions transported from an upwind area located outside the district) are not required to develop ozone attainment plans. In this case, the responsible upwind district(s) would be responsible for mitigating the ozone violations in the downwind nonattainment area (CCR, Title 17, Subchapter 1.5, Article 6, Section 70600).

A district with an area that is redesignated as nonattainment for any of the remaining five pollutants--PM10, sulfates, lead, hydrogen sulfide, or visibility reducing particles--is not subject to any specific statutory planning requirements. However, such districts must adopt and enforce rules and regulations to expeditiously attain the state standards for these five pollutants. Furthermore, the nonattainment district may develop and implement an attainment plan (HSC section 40001).

The second consequence is that a nonattainment district for ozone, carbon monoxide, nitrogen dioxide, and sulfur dioxide is required to collect fees from large nonvehicular sources located in the nonattainment area (HSC section 39612 and CCR, Title 17, section 90620 et seq.). Only those sources which emit 500 tons per year or more of any of these four pollutants or their precursors are subject to the additional permit fees. The additional fees are used to help defray the costs of state programs related to nonvehicular sources and implemented under the California Clean Air Act of 1988 (Stats. 1988, ch. 1568).

2. Areas Redesignated as Nonattainment-Transitional

Nonattainment-transitional is a subcategory of the nonattainment designation. Therefore, a district with an area that is redesignated as nonattainment-transitional is subject to the same legal requirements as a nonattainment district (refer to discussion in subsection 1, above).

However, in contrast to the simple nonattainment designation, nonattainment-transitional status may signal a change in how these legal requirements are implemented. For example, a district that is currently implementing an approved attainment plan may determine that some of the additional control measures contained in the attainment plan are not needed to reach attainment by the earliest practical date. As a result, nonattainment-transitional status provides the district with a signal that it may be appropriate to review and perhaps modify its approved attainment plan. HSC section 40925.5 specifically allows a district with an area designated as nonattainment-transitional for ozone to shift some stationary source control measures from the rulemaking calendar to the contingency category if the district finds these control measures are no longer necessary to accomplish expeditious attainment of the state ozone standard. District actions in response to nonattainment-transitional status are subject to the Board's review and approval.

3. Areas Redesignated as Attainment

State law does not impose specific planning requirements upon districts with areas redesignated as attainment. However, state law does require that the state standards not only be attained but also, maintained. State law requires the districts and the Board to make a coordinated effort to protect and enhance the ambient air quality. As part of this effort, the districts must adopt rules and regulations sufficiently effective to attain and maintain the state standards (HSC sections 39001, 40001, and 41500).

E. The Area Designation Review Process

Both the HSC (section 39608(c)) and the designation criteria require the Board to review the area designations annually and to update them (redesignate areas) as new information becomes available. As part of this review process, the ARB staff distributed two notices. On April 13, 1994, the ARB staff sent a letter to all districts notifying them of the May 1, 1994, deadline for requesting a change in an area's designation, submitting information for consideration in the annual review process, or requesting a nonattainment-transitional designation for pollutants other than ozone. (Note that the nonattainment-transitional designations for ozone are made by operation of law, rather than by the Board.) On July 14, 1994, the ARB staff distributed a general announcement for a public consultation meeting held August 4, 1994. This announcement included a list of areas with the proposed redesignations the ARB staff was considering.

As required by the designation criteria, the ARB staff has reviewed the air quality data collected during the most recent three calendar years--1991 through 1993. Based on these data, the ARB staff proposes that a number of specific areas be redesignated. All of the proposed redesignations reflect changes toward better air quality, indicating the benefits of the ongoing emission control efforts.

CHAPTER II PROPOSED AMENDMENTS TO THE AREA DESIGNATIONS

A. Introduction

This chapter describes and explains the proposed amendments to the area designations. The proposed redesignations are consistent with the designation criteria established in CCR, Title 17, sections 70300 through 70306. The proposed redesignations are based on air quality data for record as defined in CCR, Title 17, section 70301 (refer to Attachment D). The air quality data used for redesignating an area as nonattainment must be representative of the averaging time specified in the state standard. The air quality data used for redesignating an area as attainment or nonattainment-transitional also must be representative and, in addition, the data must be complete. The specific requirements for evaluating data representativeness and data completeness are given in Appendices 1 and 3, respectively, of the designation criteria (refer to Attachment D).

As required by the designation criteria, the ARB staff reviewed the air quality data collected during the three-year period of 1991 through 1993. Based on these data, redesignations are appropriate only for four of the nine pollutants for which the Board makes area designations. The affected pollutants are: ozone, carbon monoxide, sulfur dioxide, and sulfates. Based on the 1991 through 1993 data, no action is proposed for the remaining five pollutants: nitrogen dioxide, PM10, lead, hydrogen sulfide, and visibility reducing particles. Therefore, the current area designations for these five pollutants would remain unchanged.

Sections B through E of this chapter discuss the areas for which the staff is proposing area redesignations. The last section of this chapter discusses the areas where air quality data appear to signal a change in the designation but for which the staff does not recommend a redesignation.

B. Proposed Area Redesignation for Ozone

The state standard for ozone is a one-hour concentration of 0.09 parts per million (ppm). Based on air quality data for 1991 through 1993, one area qualifies for redesignation for ozone.

Currently, Mono County in the Great Basins Valleys Air Basin is designated as nonattainment for ozone. The area now qualifies for redesignation as nonattainment-transitional, by operation of law. Section 40925.5(a) of the HSC (see Attachment A) provides that an ozone nonattainment area shall be redesignated as nonattainment-transitional, by operation of law, if there are three or fewer exceedances of the state ozone standard at any monitoring site in the air basin during the last calendar year. A change in designation that is carried out by operation of law does not require a formal action by the Air Resources Board. However, the staff

hereby acknowledges the change in the designation in this Staff Report. The reasons for the change are summarized, below.

The maximum hourly ozone concentration measured during the last three years in Mono County was 0.10 ppm, after excluding data affected by highly irregular or infrequent events. The 0.10 ppm concentration occurred during 1992. Since 0.10 ppm exceeds the state ozone standard, the area does not qualify for the attainment designation. However, the maximum measured ozone concentration in Mono County during 1993, the most recent calendar year, was 0.09 ppm. This concentration does not exceed the state ozone standard.

Therefore, the staff concludes that based on data for 1991 through 1993, Mono County qualifies for a change in designation from nonattainment to nonattainment-transitional for ozone, by operation of law.

C. Proposed Area Redesignations for Carbon Monoxide

The state carbon monoxide (CO) standards are expressed in two averaging times for any given area of the state: one-hour and eight-hour. A one-hour average CO standard of 20 ppm applies statewide. An eight-hour average CO standard of 9.0 ppm applies in all areas of the state except the Lake Tahoe Air Basin. In the Lake Tahoe Air Basin, a more stringent eight-hour average CO standard of 6 ppm, not to be equaled, applies.

The state eight-hour CO standard has been the more difficult standard to meet for all areas. With the exception of a single monitoring site in Los Angeles County, there were no exceedances of the state one-hour CO standard in any area of the state during 1991 through 1993.

Based on data from 1991 through 1993, four areas qualify for redesignation for CO. The areas are: the San Jose Urbanized Area of Santa Clara County in the San Francisco Bay Area Air Basin; Orange County in the South Coast Air Basin; the Stockton Urbanized Area of San Joaquin County and the Modesto Urbanized Area of Stanislaus County, both in the San Joaquin Valley Air Basin. All four areas qualify for redesignations as attainment.

1. Santa Clara County

Santa Clara County currently is divided into two CO designation areas. The San Jose Urbanized Area is designated as nonattainment-transitional, while the remainder of the County is designated as attainment.

During 1991 through 1993, there were four exceedances of the state eight-hour CO standard at the high CO site in the San Jose Area. All occurred during 1991. Because, all four exceedances are higher than the calculated Expected Peak Day Concentration of 9.0 ppm, they are excluded as extreme concentrations. As a result, these exceedances are not considered violations of the state eight-hour CO standard. There were also no CO violations at any site outside the San Jose Urbanized Area in Santa Clara

County. Furthermore, the staff has determined that the CO concentrations in the San Jose Urbanized Area reflect the highest CO concentrations expected in Santa Clara County.

Based on air quality data for 1991 through 1993 for Santa Clara County, the staff recommends that the entire Santa Clara County be designated as attainment for CO.

2. Orange County

Orange County is located entirely within the South Coast Air Basin. Currently, Orange County is designated as nonattainment for the state CO standards.

During 1991 through 1993, there was one exceedance of the state eight-hour CO standard at each of three monitoring sites in Orange County, and all occurred during 1992. Each of these exceedances is higher than the calculated Expected Peak Day Concentration for the respective site. Therefore, all the exceedances are excluded as extreme concentrations and are not considered as violations of the state CO standard.

Based on the data for 1991 through 1993 for Orange County, the staff recommends that Orange County in the South Coast Air Basin be redesignated from nonattainment to attainment. As a result of this redesignation, Los Angeles County would be the only county in the South Coast Air Basin designated as nonattainment for CO. The other three counties in the Basin -- Orange, Riverside, and San Bernardino Counties-- all would be designated as attainment for CO.

3. San Joaquin County

San Joaquin County in the San Joaquin Valley Air Basin, currently is divided into two designation areas for the state CO standards. The Stockton Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified.

During 1991 through 1993, there were two exceedances of the state eight-hour CO standard at the high CO site at Stockton, in the Stockton Urbanized Area. Both exceedances occurred during 1991, and both are higher than the calculated Expected Peak Day Concentration of 8.8 ppm for the site. As a result, the exceedances are excluded as extreme concentrations and are not considered violations of the state CO standard. Although there is no CO monitoring site outside the Stockton Urbanized Area, the staff has determined that the CO concentrations in the Stockton Urbanized Area reflect the highest CO concentrations expected in the County.

Based on air quality data for 1991 through 1993 for the Stockton Urbanized Area, the staff recommends that the entire San Joaquin County be designated as attainment for the state CO standards.

4. Stanislaus County

Stanislaus County in the San Joaquin Valley Air Basin, currently is divided into two designation areas for the state CO standards. The Modesto Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified.

During 1991 through 1993, there were two exceedances of the state eight-hour CO standard at the CO site at Modesto, in the Modesto Urbanized Area. Both exceedances occurred during 1991, and both are higher than the calculated Expected Peak Day Concentration of 8.7 ppm for the site. As a result, these exceedances are excluded as extreme concentrations and are not considered violations of the state CO standards. There also were no CO violations at the CO site outside the Modesto Urbanized Area in Stanislaus County. The staff has determined that the CO concentrations in the Modesto Urbanized Area reflect the highest CO concentrations expected in the County.

Based on air quality data for 1991 through 1993 for the CO monitoring sites in Stanislaus County, the staff recommends that the entire Stanislaus County be designated as attainment for the state CO standards.

D. Proposed Area Redesignation for Sulfur Dioxide

The state sulfur dioxide standards are expressed in two averaging times: one-hour concentration of 0.25 ppm and a 24-hour concentration of 0.04 ppm. Appendix 4 of the designation criteria (refer to Attachment D) provides the Board with screening procedures that will serve as a basis for making designation decisions when an area has no or incomplete air quality data for record. In order to redesignate an area for the state sulfur dioxide standards, the screening procedures require the areas's total point source emissions of oxides of sulfur (SOx) not to exceed 1,700 tons per year and no single facility's annual SOx emissions exceed 900 tons per year.

Currently, the Southeast Desert Air Basin (SEDAB) portion of Kern County is designated unclassified for the state sulfur dioxide standards. This area is the only area in the state that is not designated attainment for the state sulfur dioxide standards. The total SOx emission inventory in the SEDAB portion of Kern County is 1,533 tons per year according to the 1991 Air Resources Board Emission Inventory. Of this, 949 tons per year come from point sources. This is well below the screening parameter of 1,700 tons per year. The maximum annual SOx emissions from a single facility is 570 tons per year, (Cal Portland Cement Plant, based on 1991 ARB Emissions Inventory) which is also below the screening parameter of 900 tons per year.

Both local values are below the screening parameters. Based on the SOx emissions in the SEDAB portion of Kern County which satisfies the screening procedures in Appendix 4 of the designation criteria, the staff recommends that the SEDAB portion of Kern County be designated as attainment for the state sulfur dioxide standards.

E. Proposed Area Redesignation for Sulfates

The state standard for sulfates is a 24-hour average concentration of 25 micrograms per cubic meter, not to be equaled. The size of the geographic area for sulfate designations generally is the air basin.

The South Coast Air Basin comprises of Orange County, and portions of Los Angeles, Riverside, and San Bernardino Counties. Currently, the entire South Coast Air Basin is designated as nonattainment for the state sulfates standard.

During 1991 through 1993, there were no exceedances of the state sulfates standard in the South Coast Air Basin. The highest measured sulfates concentration was 24.7 micrograms per cubic meter and occurred during 1991 at a site in Los Angeles County. This concentration is below the level of the state standard.

Based on sulfates air quality data for 1991 through 1993, the staff recommends that the entire South Coast Air Basin be redesignated as attainment for sulfates.

F. Areas Not Recommended for Redesignations

This section discusses three areas of the state where the air quality data for 1991 through 1993 appear to signal a change in the designation. However, the staff does not recommend a redesignation in each case. These areas are currently designated as attainment for a particular pollutant and showed measured exceedance(s) for that pollutant. However, the exceedance(s) were either determined to be or believed to be affected by highly irregular or infrequent events and, therefore, would not be violations of the state standards. The three areas and the pollutants for which there were exceedance(s) are: Southeast Desert Air Basin (nitrogen dioxide), San Luis Obispo County in the South Central Coast Air Basin (sulfur dioxide), and Los Angeles County in the South Coast Air Basin (lead).

The reasons that the staff does not recommend a redesignation for each of these areas are discussed below.

1. Southeast Desert Air Basin

The Southeast Desert Air Basin currently is designated as attainment for the state nitrogen dioxide standard. The state nitrogen dioxide standard is a one-hour average concentration of 0.25 ppm. In May 1993, a one-hour nitrogen dioxide concentration of 0.36 ppm was measured at the Trona-Athol monitoring site in the Southeast Desert Air Basin portion of San Bernardino County. This concentration is higher than the level of the state nitrogen dioxide standard. The Trona-Athol site was established in March 1993 by the Mojave Desert Air Quality Management District as a replacement for the Trona-Market site, which was scheduled for closure.

After a review of the data and relevant information, the staff identified this measured value of 0.36 ppm as highly anomalous among the nitrogen dioxide concentrations at the site. This hourly measurement was followed by a measurement of only 0.06 ppm. The next highest hourly nitrogen dioxide concentration at the site was 0.05 ppm, and a majority of the remaining nitrogen dioxide concentrations at the site ranged from 0 to 0.02 ppm. These values are substantially below the state nitrogen dioxide standard of 0.25 ppm. All information currently available to the staff indicates that this exceedance is a highly irregular or infrequent event, very likely an extreme concentration event. However, because the data for the Trona-Athol site do not meet the Board's completeness criteria, we cannot be positive at this time. If the monitoring site reports complete data through January 1995, we expect to be able to confirm the 0.36 ppm concentration as an extreme concentration event by early next year. During the time between now and the end of next January, the staff and the district will follow the monitoring data to check for any additional exceedances.

Since the staff believes that this exceedance would likely be excluded as a highly irregular or infrequent event, the staff does not currently consider it as a violation. Therefore, the staff does not recommend any change in the current attainment designation for the state nitrogen dioxide standard for the Southeast Desert Air Basin.

2. San Luis Obispo County

San Luis Obispo County, in the South Central Coast Air Basin, currently is designated as attainment for sulfur dioxide. There are two state standards for sulfur dioxide: a one-hour average sulfur dioxide standard of 0.25 ppm and a 24-hour average standard of 0.04 ppm.

In June 1993, a one-hour sulfur dioxide concentration of 0.57 ppm and a 24-hour sulfur dioxide concentration of 0.046 ppm were recorded. Both concentrations, measured at the Nipomo-1300 Guadalupe monitoring site in San Luis Obispo County, exceed the respective state sulfur dioxide standard. However, both the one-hour exceedance and the 24-hour exceedance are higher than the calculated Expected Peak Day Concentrations of 0.109 ppm and 0.021 ppm, respectively, for the site. Thus, both exceedances are excluded as extreme concentration events, which are one type of highly irregular or infrequent events.

Since the exceedances were affected by a highly irregular or infrequent event, they are not considered violations of the state sulfur dioxide standards. Therefore, the staff does not recommend any change in the attainment designation for sulfur dioxide for San Luis Obispo County or the South Central Coast Air Basin.

3. Los Angeles County

Los Angeles County in the South Coast Air Basin, currently is designated as attainment for the state lead standard, along with all other areas of the state. The state lead standard is a 30-day average concentration of 1.5 micrograms per cubic meter.

In March 1993, a 30-day average lead concentration of 1.83 micrograms per cubic meter was measured at the Commerce-L.A. Paper Box monitoring site in Los Angeles County. The measured concentration exceeds the state lead standard. There were no other exceedances of the state lead standard at this monitoring site during 1991 through 1993.

The Commerce-L.A. Paper Box site is one of eight source-oriented sites operated by the South Coast Air Quality Management District (AQMD) to monitor the air quality around a number of lead processing facilities in the Basin. Since early 1992, the South Coast AQMD has worked closely with the industrial facilities to reduce their lead emissions and prevent exceedances of the state lead standard. The Daelco lead oxide manufacturing plant at Commerce, the source upwind of the monitoring site in question, has been conducting equipment modifications and construction activities that are intended to reduce the plant's overall lead emissions. The District staff believes the lead exceedance was caused by these construction and modification activities (refer to Attachment F). The District has taken steps to prevent any further exceedances of the lead standard.

Additionally, in October 1992, the District adopted Rule 1420 (Emission Standard for Lead). This Rule, which became effective on July 1, 1994, contains a number of requirements for: equipment performance standards, housekeeping practices, record keeping, source testing, fence line air monitoring, and air quality modeling. The District staff believes that the Daelco plant is now in compliance with Rule 1420 and that an exceedance will not recur.

Because the lead exceedance at the Commerce-L.A. Paper Box monitoring site is not expected to recur, it is considered as being affected by an exceptional event, which is one type of highly irregular or infrequent events. As a result, the exceedance is not considered a violation of the state lead standard. Therefore, the staff does not recommend any change in the lead attainment designation for Los Angeles County or the South Coast Air Basin.

CHAPTER III ALTERNATIVES TO THE PROPOSED AMENDMENTS

State law (HSC section 39608) requires the Board to annually review the area designations. The proposed amendments to the area designations that are described in Chapter II of this Staff Report, reflect the application of the designation criteria set forth in CCR, Title 17, sections 70300 through 70306. Each proposed area redesignation is accompanied by a discussion of its basis and justification. The ARB staff has considered the potential alternatives to the proposed amendments to the area designations--namely, the no action alternative. However, based on the available data, the ARB staff finds the proposed amendments are more appropriate than the no action alternative.

CHAPTER IV IMPACTS OF THE PROPOSED AMENDMENTS

A. Environmental Impacts

The adoption of the proposed amendments to the area designations is not expected in and of itself to result in any adverse environmental impacts. The proposed amendments involve redesignating six areas as attainment and one area as nonattainment-transitional. Redesignating an area as attainment will have no adverse environmental impacts since a district is obligated not only to attain, but also maintain, the state standards.

B. Economic Impacts

The Board's Executive Officer has determined that the proposed amendments to the regulations will not impose costs or generate savings, as defined in Government Code section 11346.5(a)(6), to any state agency or in federal funding to the state, costs or mandate to any local agency or school district whether or not reimbursable by the state pursuant to Part 7 (commencing with section 17500), Division 4, Title 2 of the Government Code, or other nondiscretionary savings to local agencies.

The Executive Officer also has determined that adoption of the proposed regulatory action will have no significant adverse economic impact, as defined in Government Code section 11346.53(a), on large or small businesses, including the ability of California businesses to compete with businesses in other states. The redesignation of six areas as attainment and one area as nonattainment-transitional will not trigger any attainment plan implementation, rulemaking, or increased permit fees, which would have an impact on business.

The Executive Officer has also determined that there will be no significant potential cost impact, as defined in Government Code section 11346.53(e), on private persons or businesses directly affected as a result of the proposed action.

In accordance with Government Code section 11346.54, the Executive Officer has determined that adoption of the proposed regulatory action will not affect the creation or elimination of jobs within California, the creation of new businesses or the elimination of existing businesses in California, or the expansion of businesses currently doing business in California.

In addition, before taking final action on the proposed regulatory action, the Board must determine that no alternative considered by the agency would be more effective in carrying out the purposes for which the amendments to the regulations are proposed or would be as effective or less burdensome to the affected private persons than the proposed action.

CHAPTER V DOCUMENTS RELIED UPON

The following is a list of the documents that were used by the staff in developing the proposed amendments.

1. Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events, Office of Air Quality Planning and Standards, U. S. Environmental Protection Agency, Research Triangle Park, N.C., # EPA-450/4-86-007 (July 1986).
2. Supplement to the Technical Support Document for Proposed Amendments to the Criteria for Designating Areas of California as Nonattainment, Attainment, or Unclassified for State Ambient Air Quality Standards, Technical Support Division, California Air Resources Board, Sacramento, California (May 1992).

ATTACHMENT A

Relevant Sections of the Health and Safety Code

Section 39607(e):

Establish and periodically review criteria for designating an air basin attainment or nonattainment for any state ambient air quality standard set forth in Section 70200 of Title 17 of the California Code of Regulations. In developing and reviewing these criteria, the state board shall consider instances where there is poor or limited ambient air quality data, and shall consider highly irregular or infrequent violations. The state board shall provide an opportunity for public comment on the proposed criteria, and shall adopt the criteria after a public hearing.

Section 39608:

(a) The state board, in consultation with the districts, shall identify, pursuant to subdivision (e) of Section 39607, and classify each air basin which is in attainment and each air basin which is in nonattainment for any state ambient air quality standard. This identification and classification shall be made on a pollutant-by-pollutant basis. Where the state board finds that data is not sufficient to determine the attainment or nonattainment status for an air basin, the state board shall identify the air basin as unclassified.

(b) The state board may assign an attainment, nonattainment, or unclassified designation to one or more areas within any air basin unless the state board finds and determines that the pollutant for which the designation applies affects the entire region or is produced by emission sources throughout the region.

(c) Designations made by the state board shall be reviewed annually and updated as new information becomes available.

Section 40718:

(a) Not later than January 1, 1990, the state board shall publish maps identifying those cities, counties, or portions thereof which have measured one or more violations of any state or federal ambient air quality standard. The state board shall produce at least one map for each pollutant.

(b) A district may prepare the maps required under subdivision (a) for the area within its jurisdiction. If a district chooses to prepare maps, the district shall provide the maps to the state board for review

not less than four months prior to the date when the state board is required to publish the maps, and pursuant to a schedule established by the state board for any subsequent maps.

(c) The maps produced pursuant to subdivision (a) shall be based upon the most recent monitoring results, using the best technological capabilities and the best scientific judgment. The maps produced pursuant to subdivision (a) shall clearly identify portions of each district which have or have not measured one or more violations of any state or federal ambient air quality standard. The maps shall be representative of the actual air quality in each portion of the district.

(d) The state board shall publish its criteria for preparing the maps pursuant to this section not later than January 31, 1989. To the extent applicable, the state board shall identify any criteria relating to meteorological impact on monitored air quality data; reliability of monitored data; magnitude, frequency, and duration of periods when ambient air quality standards are exceeded; and the area within the district in which the standards are exceeded.

(e) Any person may petition the state board to hold a public hearing on any proposed, adopted, amended, or revised map. If the petition is granted by the state board, the public hearing may be held at a regularly scheduled public hearing in Sacramento. Notice of the time and place of any hearing shall be given not less than 30 days prior to the hearing by publication in the district pursuant to Section 6061 of the Government Code. If a district includes portions of more than one county, the notice shall be published in each county not less than 30 days prior to the date of the hearing.

The notice shall include a description of the map proposed to be adopted, amended, or repealed and a summary description of the effect of the proposal.

(f) The state board shall review annually, and as appropriate revise, the maps required by this section, using the criteria developed pursuant to subdivision (c).

(g) Nothing in this section is intended to prevent a district board from enacting and enforcing rules or regulations designed to prevent interference with or maintenance of the state or federal air quality standards, or to prevent significant deterioration of the air quality in any area of the district.

Section 40925.5(a):

A district which is nonattainment for the state ozone standard shall be designated "nonattainment-transitional" by operation of law if, during a single calendar year, the state standard is not exceeded more than three times at any monitoring location within the air basin.

ATTACHMENT B

Area Designations for State and National Ambient Air Quality Standards

I. Introduction

This attachment fulfills the requirement of Health and Safety Code Section 40718 for the Air Resources Board (the Board) to publish maps that identify where one or more violations of any state or national ambient air quality standard have been measured.

The attachment is divided into three sections. Section A details the levels and specific requirements of both state and national ambient air quality standards.

Section B presents maps and tables showing the designation of areas for each pollutant for which there is a state standard. These maps and tables reflect the proposed area redesignations that the Board will consider in November 1994, pursuant to the Health and Safety Code Section 39608. An attainment designation for an area signifies that pollutant concentrations in the area did not violate the state standard for that pollutant. A nonattainment designation indicates that a pollutant concentration did violate the state standard at least once during the previous three calendar years, excluding an exceedance(s) affected by highly irregular or infrequent events as defined in the designation criteria. An unclassified designation indicates that air quality and other relevant data are inadequate to determine whether an area is attainment or nonattainment. In addition to these three major categories, there is a subcategory of the nonattainment designation known as nonattainment-transitional. This subcategory applies to areas that are close to attainment and meet other specific criteria (refer to Attachment D to the Staff Report).

Section C of this attachment presents maps and tables showing the designation of each area for each pollutant for which there is a national ambient air quality standard. The determination of attainment, nonattainment, or unclassified was based on requirements in section 107(d) of the Clean Air Act Amendments of 1990. The designations have been promulgated as final by the United States Environmental Protection Agency (U.S. EPA).

A. State and National Ambient Air Quality Standards

The Board has adopted and the U.S. EPA has promulgated ambient air quality concentration levels that define good air quality. These levels are the ambient air quality standards and were established to protect human health and/or welfare. The state and national standards may differ because

the state Board considered different bodies of information and chose to provide a wider margin of safety than did the U.S. EPA.

An ambient air quality standard is a concentration level expressed in either parts per million or as micrograms per cubic meter averaged over a specific time period such as one hour, eight hours, 24 hours, or one year. The different averaging times and concentrations are met to protect against different exposure effects. Some standards are not to be exceeded, while others or not to be equaled or exceeded.

The national standards are further defined as either primary standards or secondary standards. The primary standards are meant to protect public health. Whereas, the secondary standards are meant to protect the public welfare from any known or anticipated adverse effects of a pollutant.

The following table lists the applicable levels, averaging times, and analytical methods for measuring the pollutant.

State of California Air Resources Board Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,4,6}	Method ⁷
Ozone	1 Hour	0.09 ppm (180 ug/m3)	Ultraviolet Photometry	0.12 ppm (235 ug/m3)	Same as Primary Std.	Ethylene Chemiluminescence
Carbon Monoxide	8 Hour	9.0 ppm (10 mg/m3)	Non-dispersive Infrared Spectroscopy (NDIR)	9 ppm (10 mg/m3)		Non-dispersive Infrared Spectroscopy (NDIR)
	1 Hour	20 ppm (23 mg/m3)		35 ppm (40 mg/m3)		
Nitrogen Dioxide	Annual Average	-	Gas Phase Chemiluminescence	0.053 ppm (100 ug/m3)	Same as Primary Std.	Gas Phase Chemiluminescence
	1 Hour	0.25 ppm (470 ug/m3)		-		
Sulfur Dioxide	Annual Average	-	Ultraviolet Fluorescence	80 ug/m3 (0.03 ppm)	-	Pararosaniline
	24 Hour	0.04 ppm (105 ug/m3)		365 ug/m3 (0.14 ppm)	-	
	3 Hour	-		-	1300 ug/m3 (0.5 ppm)	
	1 Hour	0.25 ppm (655 ug/m3)		-	-	
Suspended Particulate Matter (PM ₁₀)	Annual Geometric Mean	30 ug/m3	Size Selective Inlet High Volume Sampler and Gravimetric Analysis	-	-	Inertial Separation and Gravimetric Analysis
	24 Hour	50 ug/m3		150 ug/m3	Same as Primary Standard	
	Annual Arithmetic Mean	-		50 ug/m3		
Sulfates	24 Hour	25 ug/m3	Turbidimetric Barium Sulfate	-	-	-
Lead	30 day Average	1.5 ug/m3	Atomic Absorption	-	-	Atomic Absorption
	Calendar Quarter	-		1.5 ug/m3	Same as Primary Std.	
Hydrogen Sulfide	1 Hour	0.03 ppm (42 ug/m3)	Cadmium Hydroxide STRactan	-	-	-
Vinyl Chloride (chloroethene)	24 Hour	0.010 ppm (26 ug/m3)	Tedlar Bag Collection, Gas Chromatography	-	-	-
Visibility Reducing Particles ⁸	8 hour (10 am to 6 pm, PST)	In sufficient amount to produce an extinction coefficient of 0.23 per kilometer due to particles when the relative humidity is less than 70 percent. Measurement in accordance with ARB Method V.		-	-	-
Applicable Only In the Lake Tahoe Air Basin						
Carbon Monoxide	8 hour	6 ppm (7 mg/m3)	NDIR	-	-	-
Visibility Reducing Particles ⁹	8 hour (10 am to 6 pm, PST)	In sufficient amount to produce an extinction coefficient of 0.07 per kilometer due to particles when the relative humidity is less than 70 percent. Measurement in accordance with ARB Method V.		-	-	-

NOTES FROM AMBIENT AIR QUALITY STANDARDS TABLE

1. California standards for ozone, carbon monoxide, (except Lake Tahoe), sulfur dioxide, (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter-PM10, and visibility reducing particles, are values that are not to be exceeded. The standards for sulfates, Lake Tahoe carbon monoxide, lead hydrogen sulfide, and vinyl chloride are not to be equaled or exceeded.
2. National standards, other than ozone and those based on annual averages or annual arithmetic means, are not to be exceeded more than once a year. The ozone standard is attained when the expected number of days per calendar year with the maximum hourly average concentrations are above the standard is equal to or less than one.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parenthesis are based upon a reference temperature of 25 degrees C. and a reference of 760 mm of mercury. All measurements of air quality are to be corrected to a reference temperature of 25 degrees C. and a reference pressure of 760 mm of mercury (1,013.2 millibar); ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent procedure which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The level of air quality necessary, with an adequate margin of safety, to protect public health. Each state must attain the primary standards no later than three years after the state's implementation plan is approved by the U.S. Environmental Protection Agency (U.S. EPA).
6. National Secondary Standards: The level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. Each state must attain the secondary standards within a "reasonable time" after the implementation plan is approved by the U.S. EPA.
7. Reference method as describe by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. This standard is intended to limit the frequency and severity of visibility impairment due to region haze and is equivalent to a 10-mile nominal visual range when the relative humidity is less than 70 percent.
9. This standard is equivalent to a 30-mile nominal visual range when the relative humidity is less than 70 percent.

B. Area Designations for State Ambient Air Quality Standards

This section contains a description of the area designations for each pollutant for which there is a state ambient air quality standard. The information presented reflects the proposed area redesignations that the Board will consider in November 1994, pursuant to Section 39608 of the Health and Safety Code.

The designations are presented both in a map and a table format. Areas are identified on the tables as attainment, unclassified, nonattainment, or nonattainment-transitional for each pollutant as shown below:

Attainment	A
Unclassified	U
Nonattainment	N
Nonattainment-transitional	T

Generally, the Board designates by air basin or county. However, when there are areas of an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, the Board may designate a smaller area. Where the boundaries of the designated area differ from the air basin or county, the description of these areas can be found in the footnotes at the bottom of each table.

Figure 1

AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD

OZONE

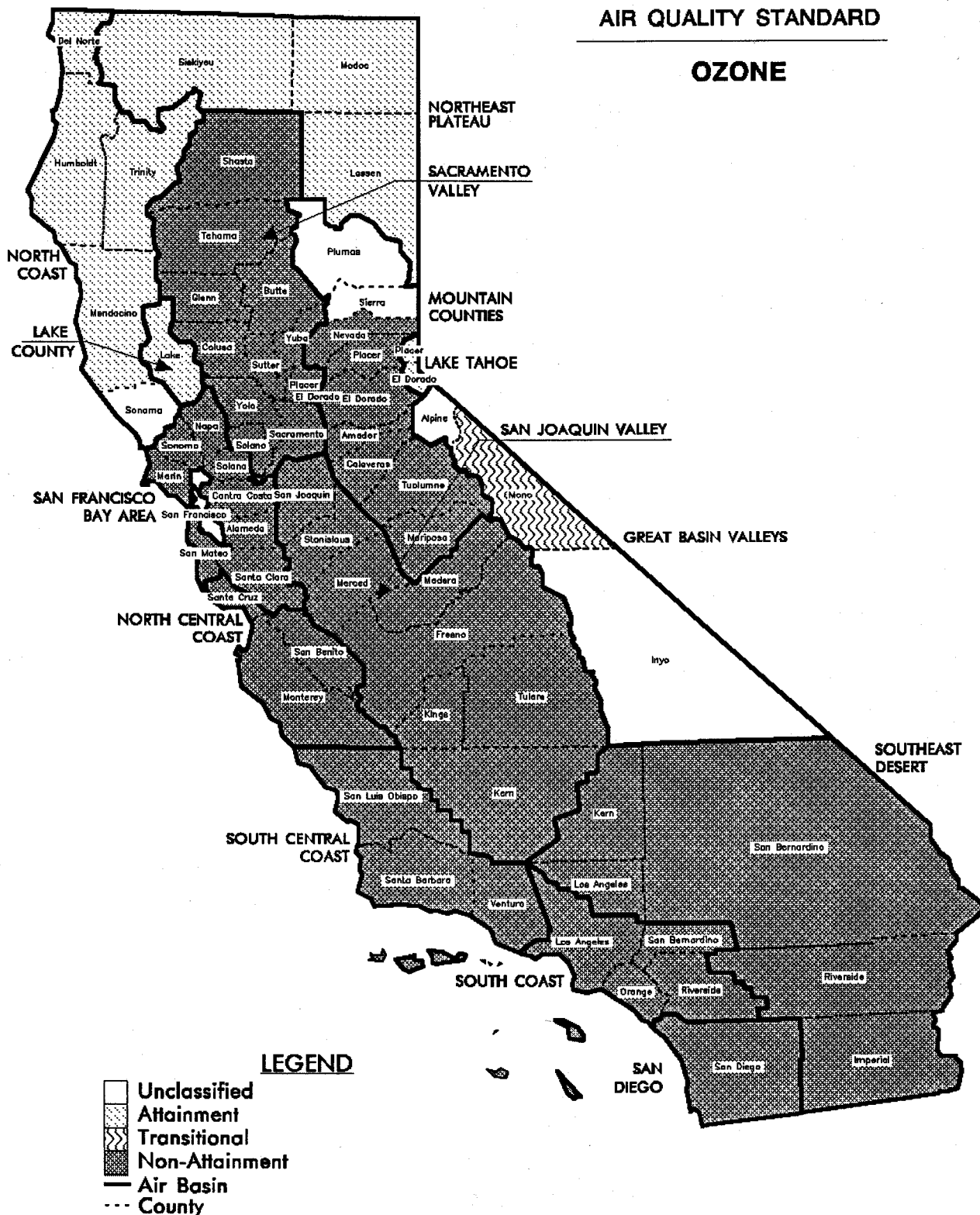


TABLE 1
Area Designations for Ozone
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN (NCAB)					GREAT BASIN VALLEYS AIR BASIN CONT.				
Del Norte County				X	Inyo County			X	
Humboldt County				X	Mono County		X		
Mendocino County				X	SOUTHEAST DESERT AIR BASIN	X			
Sonoma County (NCAB portion)			X		MOUNTAIN COUNTIES AIR BASIN (MCAB)				
Trinity County				X	Amador County	X			
SAN FRANCISCO BAY AREA AIR BASIN	X				Calaveras County	X			
NORTH CENTRAL COAST AIR BASIN	X				El Dorado County (MCAB portion)	X			
SOUTH CENTRAL COAST AIR BASIN	X				Mariposa County	X			
SOUTH COAST AIR BASIN	X				Nevada County	X			
SAN DIEGO AIR BASIN	X				Placer County (MCAB portion)	X			
NORTHEAST PLATEAU AIR BASIN				X	Plumas County			X	
SACRAMENTO VALLEY AIR BASIN	X				Sierra County			X	
SAN JOAQUIN VALLEY AIR BASIN	X				Tuolumne County	X			
GREAT BASIN VALLEYS AIR BASIN					LAKE COUNTY AIR BASIN				X
Alpine County			X		LAKE TAHOE AIR BASIN				X

Figure 2

**AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD**

CARBON MONOXIDE

Note: Circular areas denote general location. See Table 2 for area description.

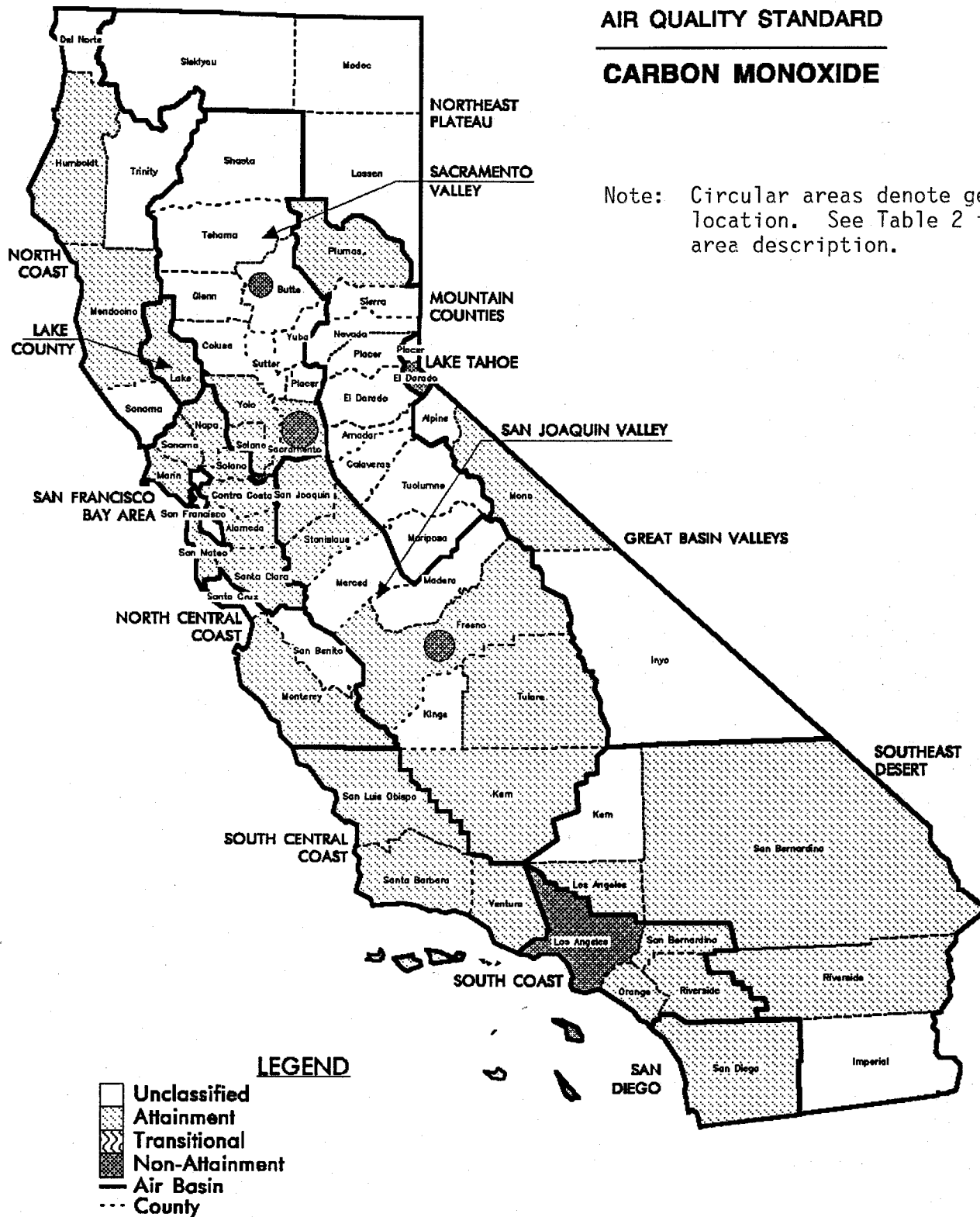


TABLE 2
Area Designations for Carbon Monoxide
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN (NCAB)					SAN JOAQUIN VALLEY AIR BASIN (SJVAB)				
Del Norte County			X		Fresno County				
Humboldt County				X	-Fresno Urbanized Area (3)	X			
Mendocino County				X	-Remainder of County				X
Sonoma County (NCAB portion)			X		Kern County (SJVAB portion)				X
Trinity County			X		Kings County			X	
SAN FRANCISCO BAY AREA AIR BASIN				X	Madera County			X	
NORTH CENTRAL COAST AIR BASIN					Merced County			X	
Monterey County				X	San Joaquin County				X
San Benito County			X		Stanislaus County				X
Santa Cruz County			X		Tulare County				X
SOUTH CENTRAL COAST AIR BASIN				X	GREAT BASIN VALLEYS AIR BASIN				
SOUTH COAST AIR BASIN (SCAB)					Alpine County			X	
Los Angeles County (SCAB portion)	X				Inyo County			X	
Orange County				X	Mono County				X
Riverside County (SCAB portion)				X	SOUTHEAST DESERT AIR BASIN (SEDAB)				
San Bernardino County (SCAB portion)				X	Imperial County			X	
SAN DIEGO AIR BASIN				X	Kern County (SEDAB portion)			X	
NORTHEAST PLATEAU AIR BASIN			X		Los Angeles County (SEDAB portion)				X
SACRAMENTO VALLEY AIR BASIN (SVAB)					Riverside County (SEDAB portion)				X
Butte County					San Bernardino County (SEDAB portion)				X
-Chico Urbanized Area (1)	X				MOUNTAIN COUNTIES AIR BASIN (MCAB)				
-Remainder of County			X		Amador County			X	
Colusa County			X		Calaveras County			X	
Glenn County			X		El Dorado County (MCAB portion)			X	
Placer County (SVAB portion)			X		Mariposa County			X	
Sacramento County					Nevada County			X	
-Sacramento Urbanized Area (2)	X				Placer County (MCAB portion)			X	
-Remainder of County				X	Plumas County				X
Shasta County			X		Sierra County			X	
Solano County (SVAB portion)				X	Tuolumne County			X	
Sutter County			X		LAKE COUNTY AIR BASIN				X
Tehama County			X		LAKE TAHOE AIR BASIN (LTAB)				
Yolo County				X	El Dorado County (LTAB portion)	X			
Yuba County			X		Placer County (LTAB portion)			X	

(1) 49 Federal Register 20652 (May 16, 1984)

(2) 56 Federal Register 56724 (November 6, 1991)

(3) 50 Federal Register 47735 (November 20, 1985)

Figure 3

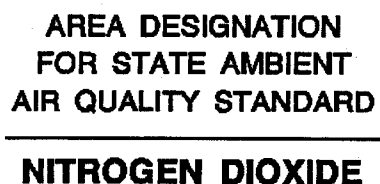


TABLE 3
Area Designations for Nitrogen Dioxide
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN				X	SACRAMENTO VALLEY AIR BASIN				X
SAN FRANCISCO BAY AREA AIR BASIN				X	SAN JOAQUIN VALLEY AIR BASIN				X
NORTH CENTRAL COAST AIR BASIN				X	GREAT BASIN VALLEYS AIR BASIN				X
SOUTH CENTRAL COAST AIR BASIN				X	SOUTHEAST DESERT AIR BASIN				X
SOUTH COAST AIR BASIN	X				MOUNTAIN COUNTIES AIR BASIN				X
SAN DIEGO AIR BASIN				X	LAKE COUNTY AIR BASIN				X
NORTHEAST PLATEAU AIR BASIN				X	LAKE TAHOE AIR BASIN				X

**AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD**

AIR QUALITY STANDARD

SULFUR DIOXIDE

LEGEND

- Unclassified
- Attainment
- Transitional
- Non-Attainment
- Air Basin
- County

TABLE 4
Area Designations for Sulfur Dioxide
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN				X	SACRAMENTO VALLEY AIR BASIN				X
SAN FRANCISCO BAY AREA AIR BASIN				X	SAN JOAQUIN VALLEY AIR BASIN				X
NORTH CENTRAL COAST AIR BASIN				X	GREAT BASIN VALLEYS AIR BASIN				X
SOUTH CENTRAL COAST AIR BASIN				X	SOUTHEAST DESERT AIR BASIN (SEDAB)				X
SOUTH COAST AIR BASIN				X	MOUNTAIN COUNTIES AIR BASIN				X
SAN DIEGO AIR BASIN				X	LAKE COUNTY AIR BASIN				X
NORTHEAST PLATEAU AIR BASIN				X	LAKE TAHOE AIR BASIN				X

Figure 5

**AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD**

PM10

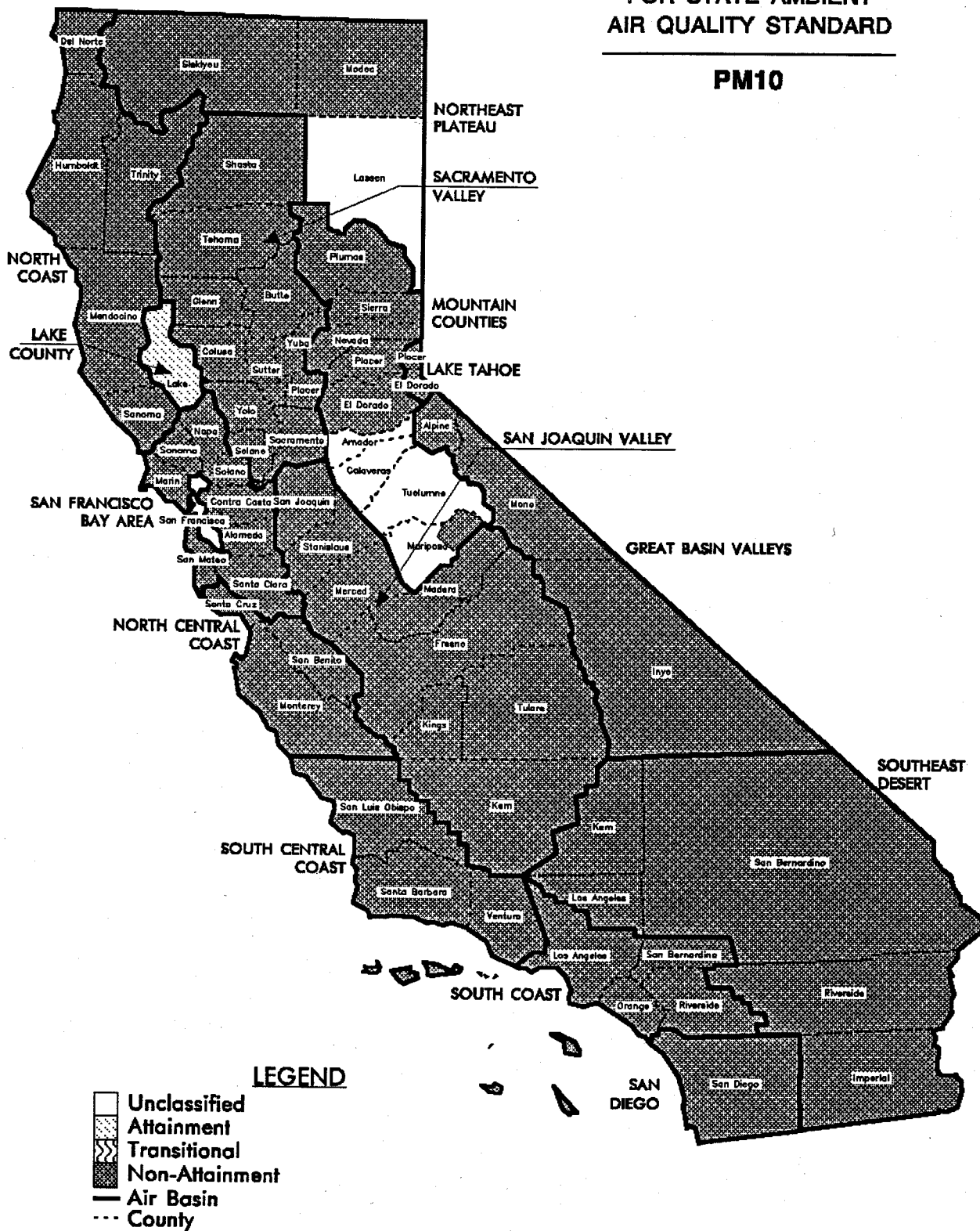


TABLE 5
Area Designations for Suspended Particulate Matter (PM 10)
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN	X				MOUNTAIN COUNTIES AIR BASIN (MCAB)				
SAN FRANCISCO BAY AREA AIR BASIN	X				Amador County			X	
NORTH CENTRAL COAST AIR BASIN	X				Calaveras County			X	
SOUTH CENTRAL COAST AIR BASIN	X				El Dorado County (MCAB portion)	X			
SOUTH COAST AIR BASIN	X				Mariposa County				
SAN DIEGO AIR BASIN	X				-Yosemite National Park	X			
NORTHEAST PLATEAU AIR BASIN					-Remainder of County			X	
Lassen County			X		Nevada County	X			
Modoc County	X				Placer County (MCAB portion)	X			
Siskiyou County	X				Plumas County	X			
SACRAMENTO VALLEY AIR BASIN	X				Sierra County	X			
SAN JOAQUIN VALLEY AIR BASIN	X				Tuolumne County			X	
GREAT BASIN VALLEYS AIR BASIN	X				LAKE COUNTY AIR BASIN				X
SOUTHEAST DESERT AIR BASIN	X				LAKE TAHOE AIR BASIN	X			

Figure 6

AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD

SULFATES

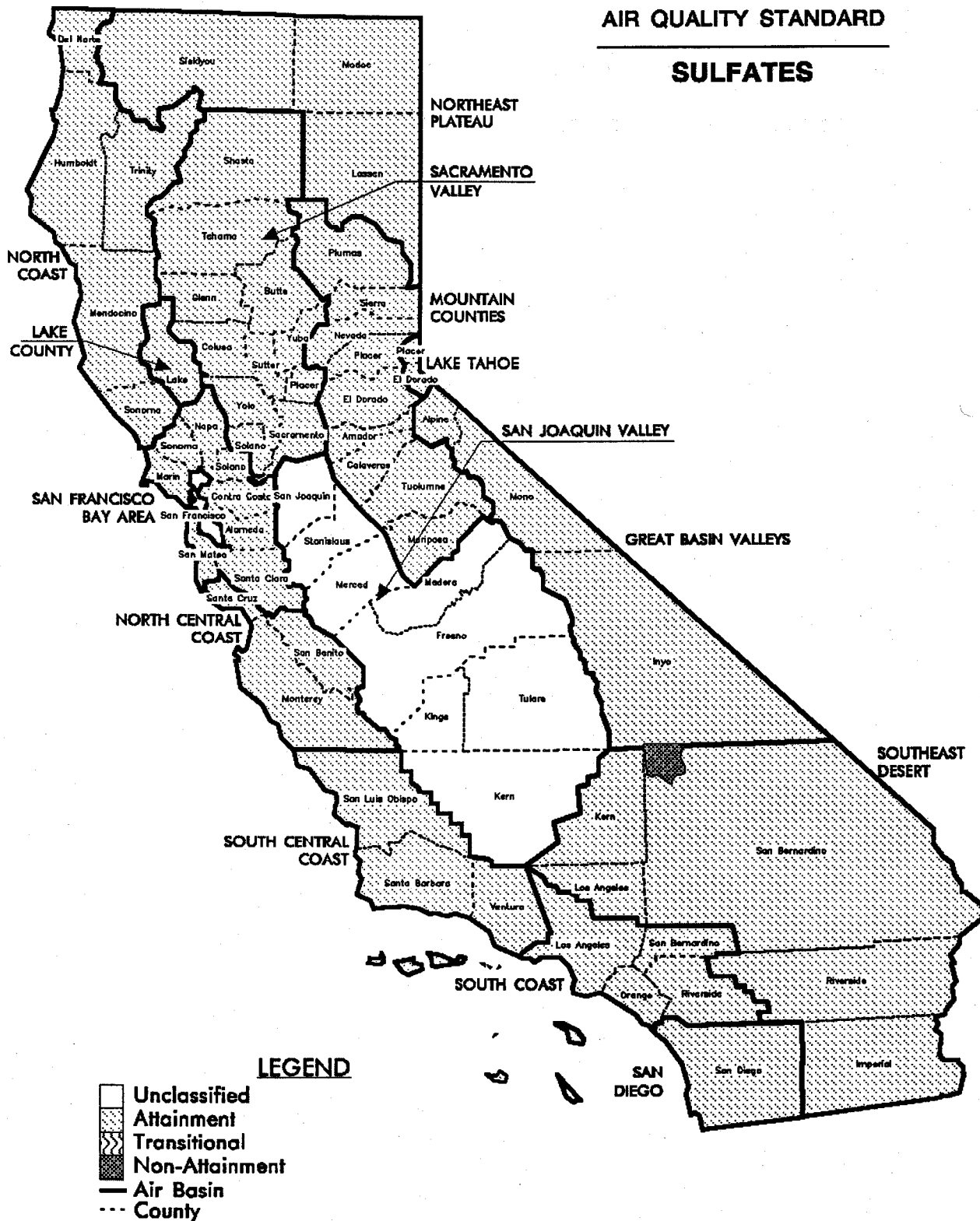


TABLE 6
Area Designations for Sulfates
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN				X	SOUTHEAST DESERT AIR BASIN (SEDAB)				
SAN FRANCISCO BAY AREA AIR BASIN				X	Imperial County				X
NORTH CENTRAL COAST AIR BASIN				X	Kern County (SEDAB portion)				X
SOUTH CENTRAL COAST AIR BASIN				X	Los Angeles County (SEDAB portion)				X
SOUTH COAST AIR BASIN				X	Riverside County (SEDAB portion)				X
SAN DIEGO AIR BASIN				X	San Bernardino County (SEDAB portion)				
NORTHEAST PLATEAU AIR BASIN				X	-Searles Valley Planning Area (1)	X			
SACRAMENTO VALLEY AIR BASIN				X	-Remainder of County				X
SAN JOAQUIN VALLEY AIR BASIN			X		MOUNTAIN COUNTIES AIR BASIN				X
GREAT BASIN VALLEYS AIR BASIN				X	LAKE COUNTY AIR BASIN				X
					LAKE TAHOE AIR BASIN				X

(1) 52 Federal Register 29384 (August 7, 1987)

Figure 7

AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD

LEAD

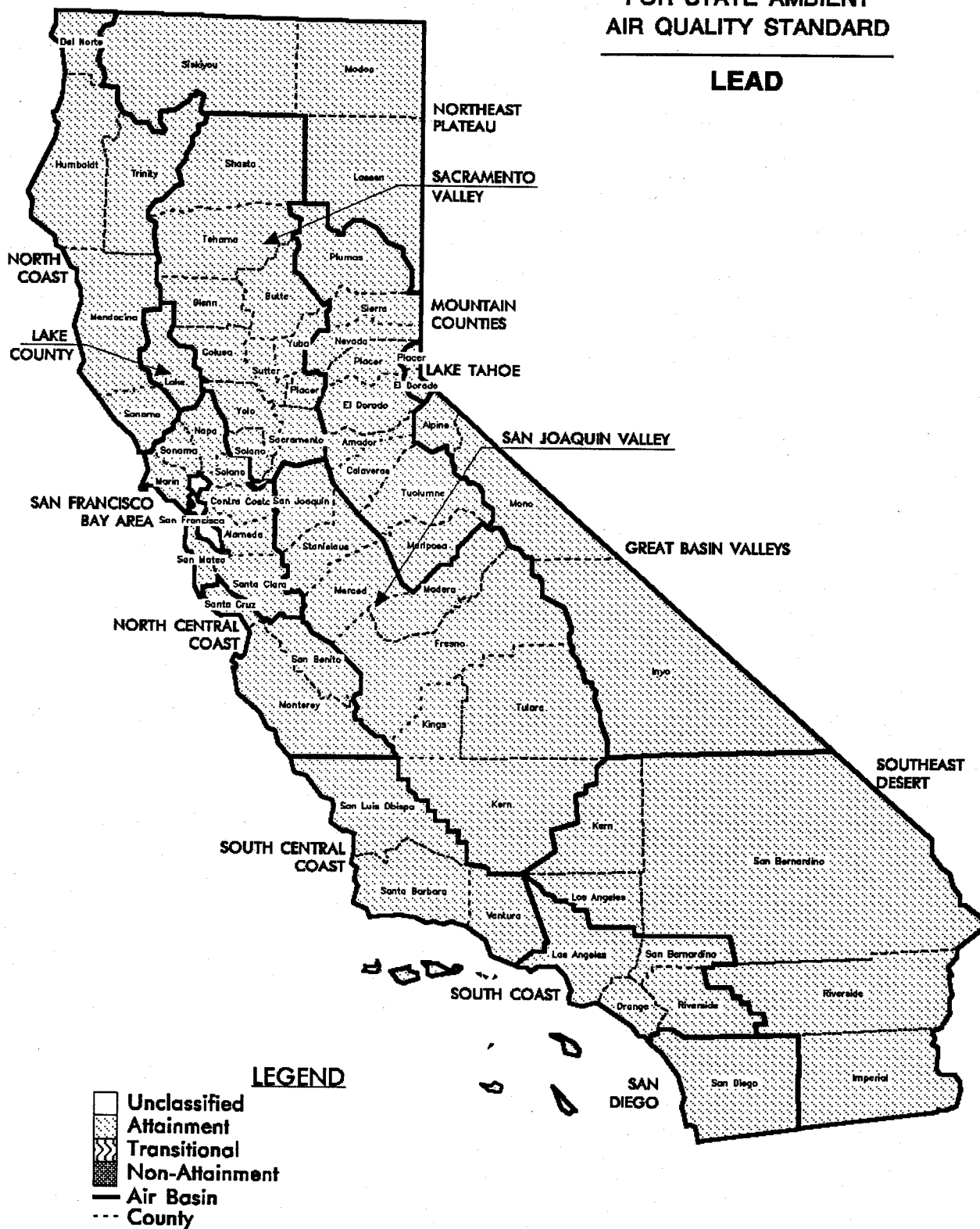


TABLE 7
Area Designations for Lead (particulate)
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN				X	SACRAMENTO VALLEY AIR BASIN				X
SAN FRANCISCO BAY AREA AIR BASIN				X	SAN JOAQUIN VALLEY AIR BASIN				X
NORTH CENTRAL COAST AIR BASIN				X	GREAT BASIN VALLEYS AIR BASIN				X
SOUTH CENTRAL COAST AIR BASIN				X	SOUTHEAST DESERT AIR BASIN				X
SOUTH COAST AIR BASIN				X	MOUNTAIN COUNTIES AIR BASIN				X
SAN DIEGO AIR BASIN				X	LAKE COUNTY AIR BASIN				X
NORTHEAST PLATEAU AIR BASIN				X	LAKE TAHOE AIR BASIN				X

Figure 8

**AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD**

HYDROGEN SULFIDE

Note: Circular areas denote general location. See Table 8 for area description.

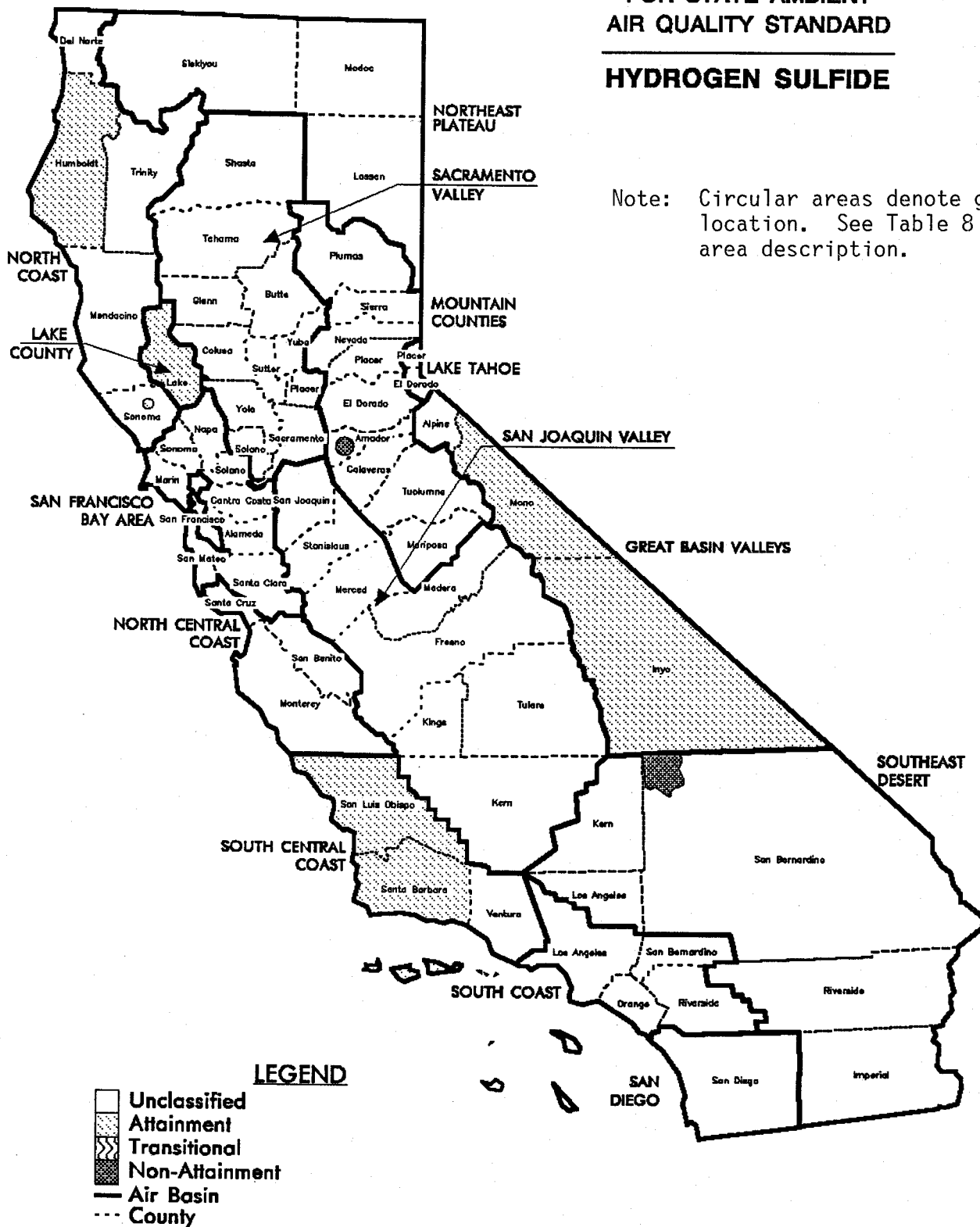


TABLE 8
Area Designations for Hydrogen Sulfide
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN (NCAB)					SOUTHEAST DESERT AIR BASIN (SEDAB)				
Del Norte County			X		Imperial County			X	
Humboldt County				X	Kern County (SEDAB portion)			X	
Mendocino County			X		Los Angeles County (SEDAB portion)			X	
Sonoma County (NCAB portion)					Riverside County (SEDAB portion)			X	
-Geyser Geothermal Area (1)				X	San Bernardino County (SEDAB portion)				
-Remainder of County			X		-Searles Valley Planning Area (2)	X			
Trinity County			X		-Remainder of County			X	
SAN FRANCISCO BAY AREA AIR BASIN			X		MOUNTAIN COUNTIES AIR BASIN (MCAB)				
NORTH CENTRAL COAST AIR BASIN			X		Amador County				
SOUTH CENTRAL COAST AIR BASIN					-City of Sutter Creek	X			
San Luis Obispo County				X	-Remainder of County			X	
Santa Barbara County				X	Calaveras County			X	
Ventura County			X		El Dorado County (MCAB portion)			X	
SOUTH COAST AIR BASIN			X		Mariposa County			X	
SAN DIEGO AIR BASIN			X		Nevada County			X	
NORTHEAST PLATEAU AIR BASIN			X		Placer County (MCAB portion)			X	
SACRAMENTO VALLEY AIR BASIN			X		Plumas County			X	
SAN JOAQUIN VALLEY AIR BASIN			X		Sierra County			X	
GREAT BASIN VALLEYS AIR BASIN					Tuolumne County			X	
Alpine County			X		LAKE COUNTY AIR BASIN				X
Mono County				X	LAKE TAHOE AIR BASIN			X	
Inyo County				X					

(1) Title 17, California Code of Regulations, Section 60200

(2) 52 Federal Register 29384 (August 7, 1987)

Figure 9

AREA DESIGNATION
FOR STATE AMBIENT
AIR QUALITY STANDARD

VISIBILITY REDUCING
PARTICLES



TABLE 9
Area Designations for Visibility Reducing Particles
California Ambient Air Quality Standard

	N	T	U	A		N	T	U	A
NORTH COAST AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		GREAT BASIN VALLEYS AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN			X		SOUTHEAST DESERT AIR BASIN			X	
SOUTH COAST AIR BASIN			X		MOUNTAIN COUNTIES AIR BASIN			X	
SAN DIEGO AIR BASIN			X		LAKE COUNTY AIR BASIN				X
NORTHEAST PLATEAU AIR BASIN			X		LAKE TAHOE AIR BASIN			X	

C. Area Designations for National Ambient Air Quality Standards

This section contains a description, in both map and table format, of the designation of each area for each pollutant for which there is a national ambient air quality standard, except for lead. The national lead standard was promulgated after the Clean Air Act was amended in 1977, and the United State Environmental Protection Agency (U.S. EPA) in promulgating the standard for lead did not require areas to be designated in a manner similar to other pollutants. The designations are shown in both a map and table format.

The designations, as promulgated by U.S. EPA, appear in Title 40, Code of Federal Regulations, Part 81 (40 CFR 81). U.S. EPA's Region IX staff confirmed the accuracy of the national designations that are shown here.

The U.S. EPA designates areas for ozone, carbon monoxide, and nitrogen dioxide as either "Does not meet primary standards" or "Cannot be classified or better than national standards." Areas that do not meet primary standards are indicated on the following maps and tables as "N" for nonattainment, and those that cannot be classified or are better than the national standards are indicated as "UA" for unclassified/attainment.

The U.S. EPA designates areas for sulfur dioxide as "Does not meet the primary standards," "Does not meet the secondary standards," "Cannot be classified," or "Better than the national standards." In California, all areas meet the primary and the secondary standards. So the following map and table for sulfur dioxide only display those areas that cannot be classified, which are indicated as "U" for unclassifiable, and those that are better than the national standards, which are indicated as "A" for attainment.

In 1991, the U.S. EPA designated areas as nonattainment for the national suspended particulate matter (PM10) standards for the first time. Previously, areas had been designated as Group I, II, or III based on the likelihood that they would violate the national PM10 standards. Each former Group I area identified in 52 Federal Register 29383 (August 7, 1987), except for the extent modified before enactment of the Clean Air Act Amendments of 1990 (CAAA, November 15, 1990), was designated nonattainment for PM10 (see section 107(d)(4)(B)(i) of the CAAA). Any other area (i.e., Group II or III) violating the national PM10 standards (as determined by 40 CFR 50, Appendix K) was also designated as nonattainment for PM10 by operation of law upon enactment of the CAAA. All other areas were designated unclassifiable for PM10 by operation of law upon enactment of the CAAA. In addition, this attachment also reflects the designation of three new PM10 nonattainment areas, designated by U.S. EPA in November and December of 1993. In the map and table for PM10, nonattainment areas are identified with an "N" and "U" identifies unclassifiable areas.

From time to time, the borders of air basins within California have been changed to facilitate the planning process. These changes are initiated by the Board and are not always reflected in the U.S. EPA area designations. For purposes of consistency with Section B of this attachment, all of the

maps in this attachment use the current air basin borders as recognized by the Board. Specifically, the maps show the western portion of Placer County in the Sacramento Valley Air Basin while national designations put that portion of Placer County in the Mountain Counties Air Basin. The tables reflect the designations as promulgated by the U.S. EPA.

The U.S. EPA uses several different planning areas that are distinct from California regions. In the following tables, there are several references to various air quality maintenance areas (AQMA). For a thorough discussion of AQMAs, refer to 40 CFR 51. The following tables also refer to air quality control regions (AQCR). For a discussion and definitions of AQCRs refer to 40 CFR 81.

Unless otherwise noted, a designation for an "urbanized" area refers to the U.S. Census Bureau definition of the urbanized area. In several cases, the U.S. EPA designations refer to specific areas that are not defined by political boundary lines. For a description of these areas, see the footnotes located at the bottom of the tables.

Figure 10

AREA DESIGNATION
FOR NATIONAL AMBIENT
AIR QUALITY STANDARD

OZONE

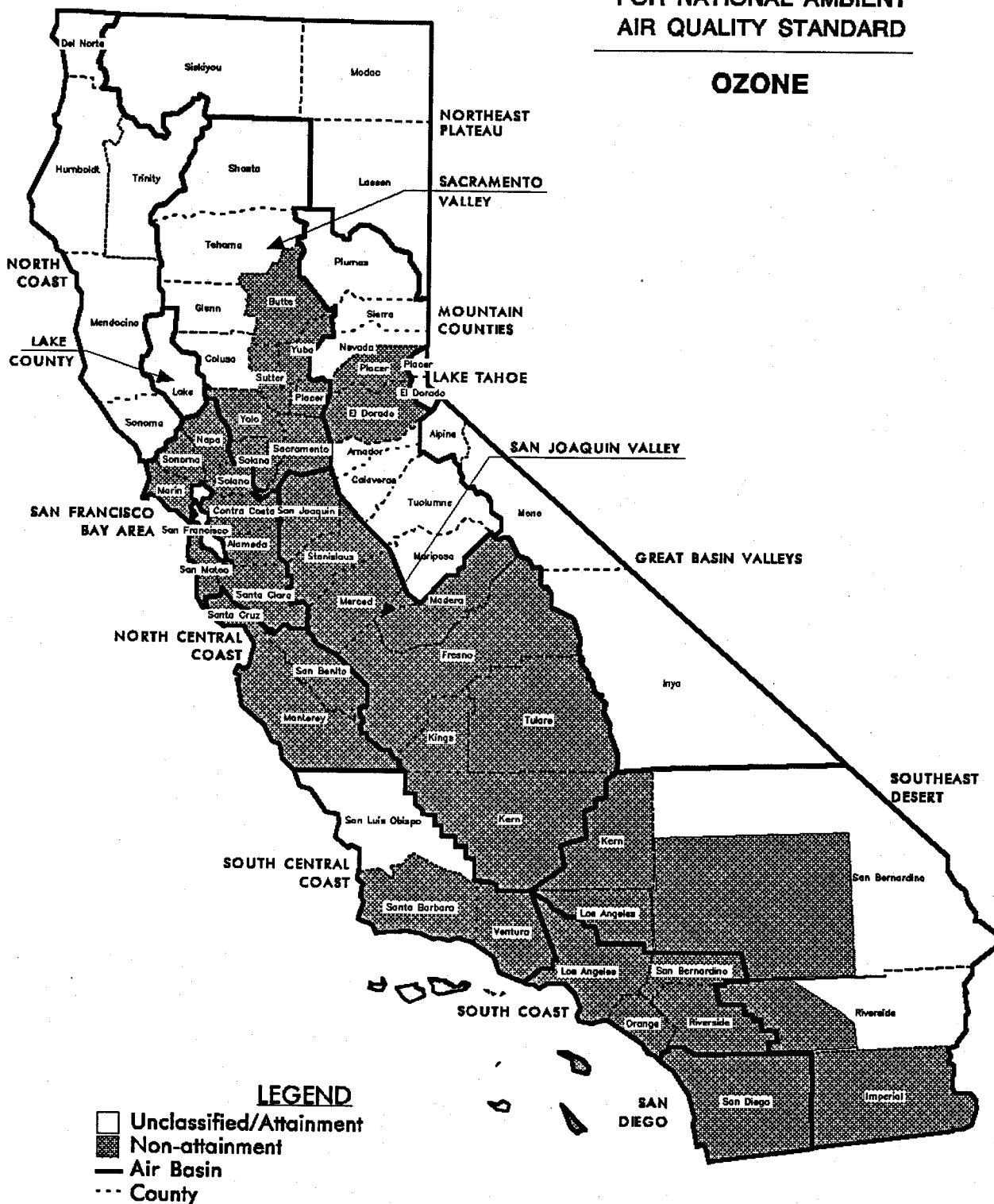


TABLE 10
Area Designations for Ozone
National Ambient Air Quality Standard

	N	U/A		N	U/A
NORTH COAST AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
SAN FRANCISCO BAY AREA AIR BASIN	X		GREAT BASIN VALLEYS AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN	X		SOUTHEAST DESERT AIR BASIN (SEDAB)		
SOUTH CENTRAL COAST AIR BASIN			Imperial County	X	
San Luis Obispo County		X	Kern County (SEDAB portion)	X	
Santa Barbara County	X		Los Angeles County (SEDAB portion)	X	
Ventura County	X		Riverside County (SEDAB portion)		
Channel Islands (1)		X	-Western portion	X	
SOUTH COAST AIR BASIN	X		-Eastern portion		X
SAN DIEGO AIR BASIN	X		San Bernardino County (SEDAB portion)		
NORTHEAST PLATEAU AIR BASIN		X	-Western portion	X	
SACRAMENTO VALLEY AIR BASIN (SVAB)			-Eastern portion		X
Butte County	X		MOUNTAIN COUNTIES AIR BASIN (MCAB)		
Colusa County		X	Amador County		X
Glenn County		X	Calaveras County		X
Placer County (SVAB portion)(2)	X		El Dorado County (MCAB portion)(2)	X	
Sacramento County	X		Mariposa County		X
Shasta County		X	Nevada County		X
Solano County (SVAB portion)(2)	X		Placer County (MCAB portion)(2)	X	
Sutter County (2)	X		Plumas County		X
Tehama County		X	Sierra County		X
Yolo County	X		Tuolumne County		X
Yuba County	X		LAKE COUNTY AIR BASIN		X
			LAKE TAHOE AIR BASIN		X

(1) Channel Islands Include:

For Santa Barbara County: Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

For Ventura County: Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of the South Coast Air Basin and as such are designated nonattainment for the national ozone standard.

(2) The Sacramento Valley Area Air Quality Maintenance Area (SVA AQMA) includes: all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, all of El Dorado and Placer Counties except for the Lake Tahoe Air Basin Portions, and the southern portion of Sutter County (56 Federal Register 56728 (November 6, 1991)).

Figure 11

**AREA DESIGNATION
FOR NATIONAL AMBIENT
AIR QUALITY STANDARD**

CARBON MONOXIDE

Note: Circular areas denote general location. See Table 11 for area description.

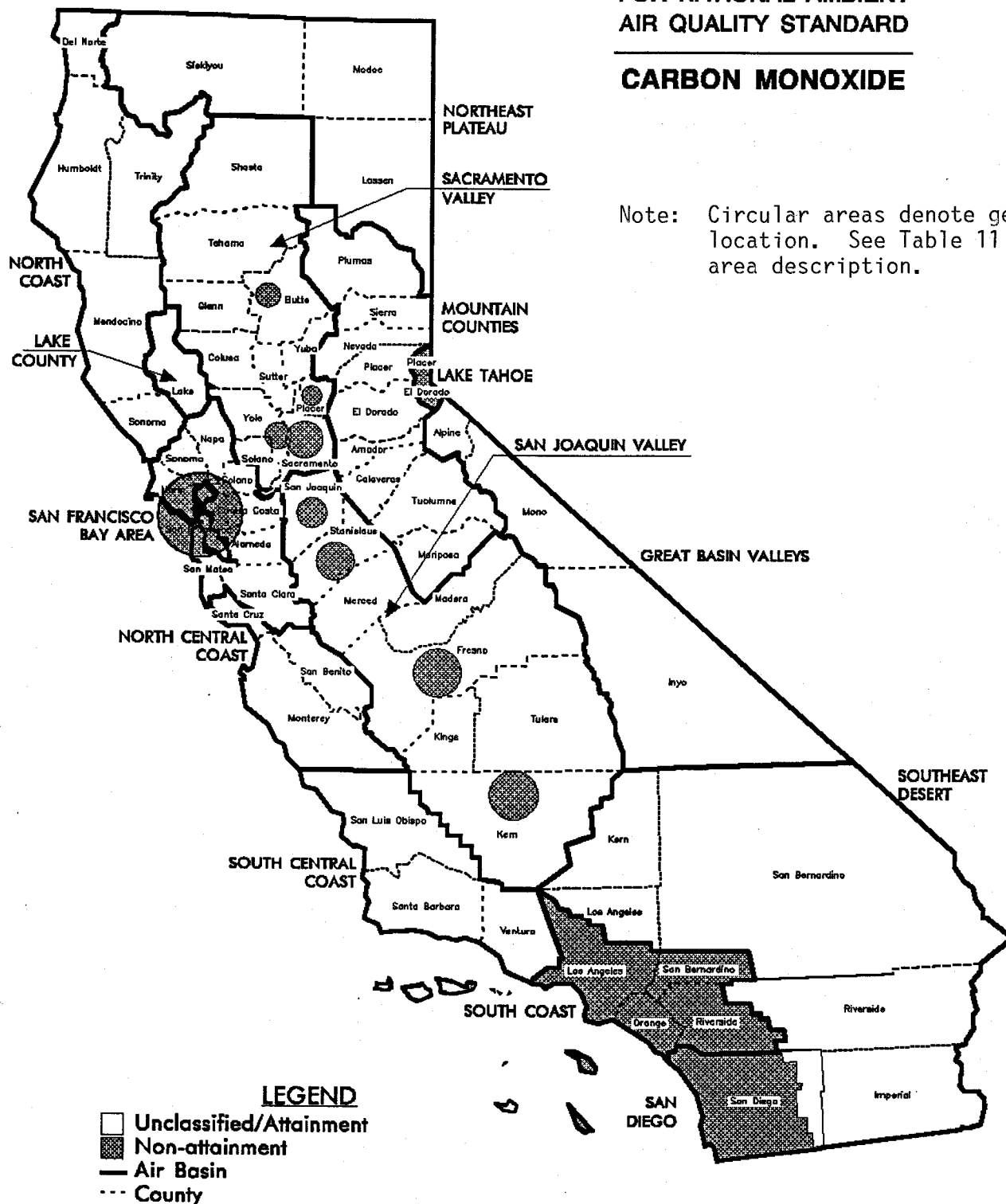


TABLE 11
Area Designations for Carbon Monoxide
National Ambient Air Quality Standard

	N	U/A		N	U/A
NORTH COAST AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN CONT.		
SAN FRANCISCO BAY AREA AIR BASIN			Yuba County		X
-Urbanized Areas	X		SAN JOAQUIN VALLEY AIR BASIN (SJVAB)		
-Remainder of Air Basin		X	Fresno County		
NORTH CENTRAL COAST AIR BASIN		X	-Fresno Urbanized Area	X	
SOUTH CENTRAL COAST AIR BASIN		X	-Remainder of County		X
SOUTH COAST AIR BASIN	X		Kern County (SJVAB portion)		
SAN DIEGO AIR BASIN (1)			-Bakersfield Metropolitan Area (2)	X	
West San Diego County	X		-Remainder of County		X
East San Diego County		X	Kings County		X
NORTHEAST PLATEAU AIR BASIN		X	Madera County		X
SACRAMENTO VALLEY AIR BASIN (SVAB)			Merced County		X
Butte County			San Joaquin County		
-Chico Urbanized Area	X		-Stockton Urbanized Area	X	
-Remainder of County		X	-Remainder of County		X
Colusa County		X	Stanislaus County		
Glenn County		X	-Modesto Urbanized Area	X	
Sacramento County			-Remainder of County		X
-Urbanized Areas	X		Tulare County		X
-Remainder of County		X	GREAT BASIN VALLEYS AIR BASIN		X
Shasta County		X	SOUTHEAST DESERT AIR BASIN		X
Solano County (SVAB portion)		X	MOUNTAIN COUNTIES AIR BASIN (MCAB)		X
Sutter County		X	Placer County (SVAB portion)(3)		
Tehama County		X	-Urbanized Areas	X	
Yolo County			-Remainder of County		X
-Urbanized Areas	X		LAKE COUNTY AIR BASIN		X
-Remainder of County		X	LAKE TAHOE AIR BASIN	X	

(1) 56 Federal Register 56724 (November 6, 1991)

(2) 47 Federal Register 3354 (January 25, 1982)

(3) U.S EPA designation puts the SVAB portion of Placer County in the MCAB.

**AREA DESIGNATION
FOR NATIONAL AMBIENT
AIR QUALITY STANDARD**

AIR QUALITY STANDARD

NITROGEN DIOXIDE

LEGEND

- Unclassified/Attainment
- Non-attainment
- Air Basin
- County

TABLE 12
Area Designations for Nitrogen Dioxide
National Ambient Air Quality Standard

	N	U/A		N	U/A
NORTH COAST AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
SAN FRANCISCO BAY AREA AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	GREAT BASIN VALLEYS AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X
SOUTH COAST AIR BASIN	X		MOUNTAIN COUNTIES AIR BASIN		X
SAN DIEGO AIR BASIN		X	LAKE COUNTY AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	LAKE TAHOE AIR BASIN		X

Figure 13



TABLE 13
Area Designations for Sulfur Dioxide
National Ambient Air Quality Standard (1)

	A	U		A	U
NORTH COAST AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN CONT.		
SAN FRANCISCO BAY AREA AIR BASIN	X		Madera County		X
NORTH CENTRAL COAST AIR BASIN		X	Merced County		X
SOUTH CENTRAL COAST AIR BASIN			San Joaquin County		X
San Luis Obispo County		X	Stanislaus County		X
Santa Barbara County		X	Tulare County		X
Ventura County	X		GREAT BASIN VALLEYS AIR BASIN		X
Channel Islands (2)		X	SOUTHEAST DESERT AIR BASIN (SEDAB)		
SOUTH COAST AIR BASIN	X		Imperial County	X	
SAN DIEGO AIR BASIN	X		Kern County (SEDAB portion)		X
NORTHEAST PLATEAU AIR BASIN		X	Los Angeles County (SEDAB portion)		X
SACRAMENTO VALLEY AIR BASIN		X	Riverside County (SEDAB portion)		X
SAN JOAQUIN VALLEY AIR BASIN (SJVAB)			San Bernardino County (SEDAB portion)		X
Fresno County		X	MOUNTAIN COUNTIES AIR BASIN		X
Kern County (SJVAB portion)	X		LAKE COUNTY AIR BASIN		X
Kings County		X	LAKE TAHOE AIR BASIN	X	

(1) There are no nonattainment areas in California.

(2) Channel Islands Include:

For Santa Barbara County: Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

For Ventura County: Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of the South Coast Air Basin and as such are designated attainment for the national sulfur dioxide standard.

Figure 14

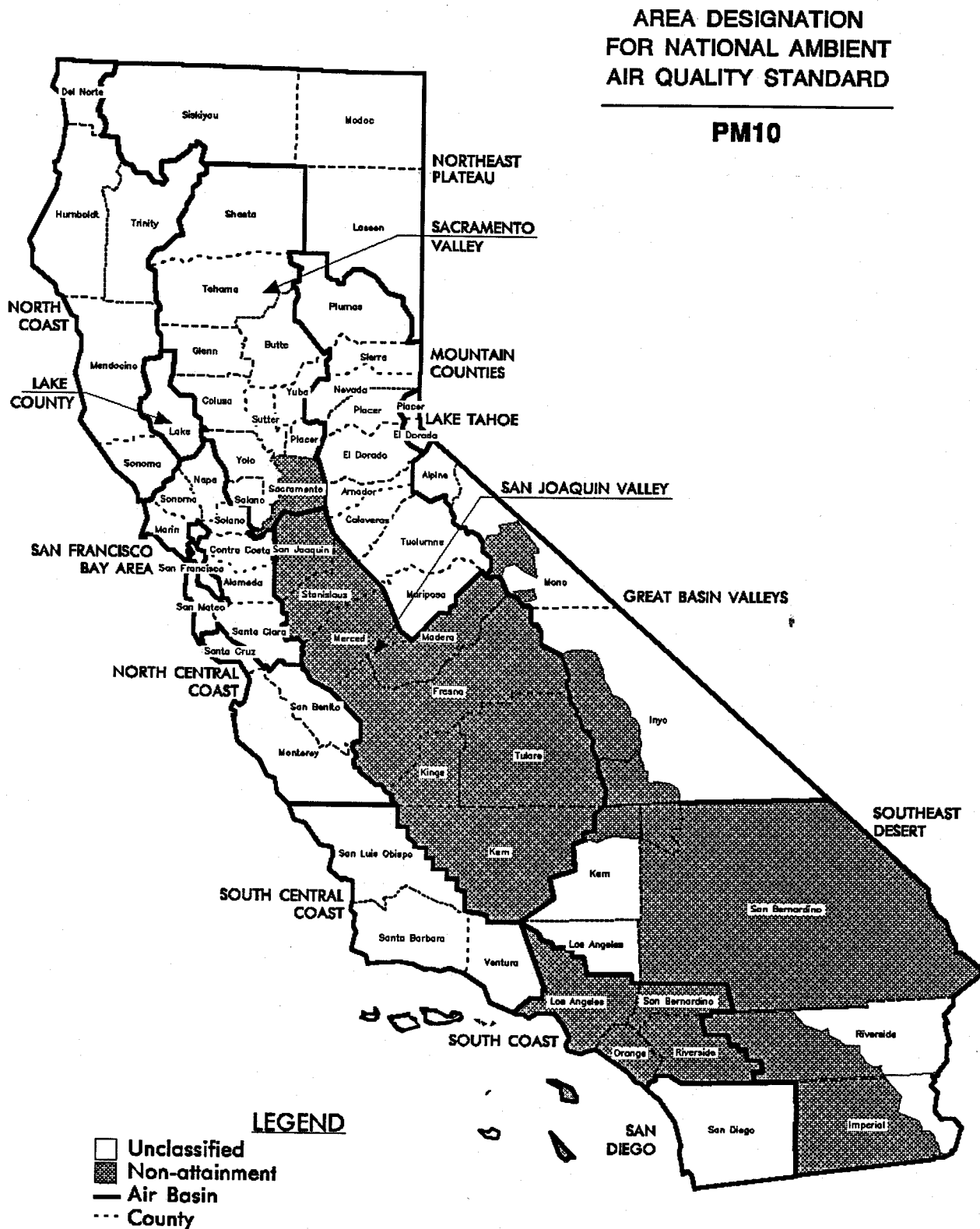


TABLE 14
Area Designations for Suspended Particulate Matter (PM₁₀)
National Ambient Air Quality Standard

	N	U		N	U
NORTH COAST AIR BASIN		X	GREAT BASIN VALLEYS AIR BASIN CONT.		
SAN FRANCISCO BAY AREA AIR BASIN		X	Mono County		
NORTH CENTRAL COAST AIR BASIN		X	-Mammoth Lakes Planning Area (3)	X	
SOUTH CENTRAL COAST AIR BASIN		X	-Mono Lake Basin (3)	X	
SOUTH COAST AIR BASIN	X		-Remainder of County		X
SAN DIEGO AIR BASIN		X	SOUTHEAST DESERT AIR BASIN (SEDAB)		
NORTHEAST PLATEAU AIR BASIN		X	Imperial County		
SACRAMENTO VALLEY AIR BASIN (SVAB)			-Imperial Valley Planning Area (4)	X	
Butte County		X	-Remainder of County		X
Colusa County		X	Kern County (SEDAB portion)		
Glenn County		X	-Searles Valley Planning Area (2)	X	
Sacramento County	X		-Remainder of County		X
Shasta County		X	Los Angeles County (SEDAB portion)		X
Solano County (SVAB portion)		X	Riverside County (SEDAB portion)		
Sutter County		X	-Coachella Valley Planning Area (4)	X	
Tehama County		X	-Remainder of County		X
Yolo County		X	San Bernardino County (SEDAB portion)		
Yuba County		X	-Searles Valley Planning Area (2)	X	
SAN JOAQUIN VALLEY AIR BASIN	X		-Remainder of County (5)	X	
GREAT BASIN VALLEYS AIR BASIN			MOUNTAIN COUNTIES AIR BASIN		X
Alpine County		X	Placer County (SVAB/MCAB portion) (6)		X
Inyo County			LAKE COUNTY AIR BASIN		X
-Owens Valley Planning Area (1)	X		LAKE TAHOE AIR BASIN		X
-Searles Valley Planning Area (2)	X				
-Remainder of County		X			

(1) 52 Federal Register 29384 (August 7, 1987)

(2) 56 Federal Register 56732 (November 6, 1991)

(3) 58 Federal Register 62547 (November 29, 1993)

(4) State of California Hydrologic Unit Map - 1978

(5) 58 Federal Register 67342 (December 21, 1993)

(6) U.S. EPA designation puts the SVAB portion of Placer County in the MCAB.

ATTACHMENT C

Text of the Proposed Amendments to California Code of Regulations, Title 17, Sections 60200 through 60209

(Proposed additions are underlined and
proposed deletions are shown as ~~STRIKED OUT~~)*

60200. Description of Non-County Areas.

- (a) [Reserved]
- (b) [Reserved]
- (c) [Reserved]

(d) That portion of Lake County and portion of Sonoma County, referred to as the Geysers Geothermal Area, is described as follows:

Beginning at the northwest corner of T. 12 N, R. 9 W, Mount Diablo Base and Meridian; thence south along the range line common to R. 9 W and R. 10 W to the point of intersection with the Mendocino-Lake County border; thence east and south along the Mendocino-Lake County border to the point of intersection with the border of Sonoma County; thence west along the Mendocino-Sonoma County border to the point of intersection with the range line common to R. 10 W and R. 9 W; thence south along the range line common to R. 10 W and R. 9 W to the point of intersection with Big Sulfur Creek; thence southwest along Big Sulfur Creek to its confluence with Little Sulfur Creek; thence southeast, east, and northeast along Little Sulfur Creek to the point of intersection with the township line common to T. 10 N and T. 11 N; thence east along the township line common to T. 10 N and T. 11 N to the northeast corner of T. 10 N, R. 9 W; thence south along the range line common to R. 9 W and R. 8 W to the southwest corner of T. 10 N, R. 8 W; thence east along the township line common to T. 9 N and T. 10 N to the point of intersection with the Sonoma-Napa County border; thence northwest along the Sonoma-Napa County border to the point of intersection with the Lake-Napa County border; thence northeast along the Lake-Napa County border to the point of intersection with State Highway 29 (SH-29); thence north and west along SH-29 to the point of intersection with the township line common to T. 12 N and T. 13 N; thence west along the township line common to T. 12 N and T. 13 N to the northwest corner of T. 12 N, R. 9 W, the point of beginning.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

* In Attachment C, text in bold indicates amendments that were adopted by the Air Resources Board on November 18, 1993, but not yet filed with the Secretary of State.

60201. Table of Area Designations for Ozone

Area	Designation
North Coast Air Basin	
Del Norte, Humboldt, Mendocino, and	
Trinity Counties	Attainment
Sonoma County	Unclassified
San Francisco Bay Area Air Basin	Nonattainment
North Central Coast Air Basin	Nonattainment
South Central Coast Air Basin	Nonattainment
South Coast Air Basin	Nonattainment
San Diego Air Basin	Nonattainment
Northeast Plateau Air Basin	Attainment
Sacramento Valley Air Basin	Nonattainment
San Joaquin Valley Air Basin	Nonattainment
Great Basin Valleys Air Basin	
Alpine County	Unclassified
Inyo County	Unclassified
Mono County	Nonattainment
	<u>Nonattainment-Transitional</u>
Southeast Desert Air Basin	Nonattainment
Mountain Counties Air Basin	
Amador, Calaveras, El Dorado, Nevada,	
Placer, Mariposa, and Tuolumne Counties	Nonattainment
Plumas and Sierra Counties	Unclassified
Lake County Air Basin	Attainment
Lake Tahoe Air Basin	Attainment

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Sections 39608 and 40925.5(a), Health and Safety Code.

60202. Table of Area Designations for Carbon Monoxide

Area	Designation
North Coast Air Basin	
Del Norte County	Unclassified
Humboldt County	Attainment
Mendocino County	Attainment
Sonoma County	Unclassified
Trinity County	Unclassified
San Francisco Bay Area Air Basin	
Alameda County	Attainment
Contra Costa County	Attainment
Marin County	Attainment
Napa County	Attainment
San Francisco County	Attainment
San Mateo County	Attainment
Santa Clara County	Attainment
San Jose/Urbanized Area¹	Nonattainment/Transitional
Remainder of County	Attainment
Solano County	Attainment
Sonoma County	Attainment
North Central Coast Air Basin	
Monterey County	Attainment
San Benito County	Unclassified
Santa Cruz County	Unclassified
South Central Coast Air Basin	
San Luis Obispo County	Attainment
Santa Barbara County	Attainment
Ventura County	Attainment
South Coast Air Basin	
Los Angeles County	Nonattainment
Orange County	Nonattainment
	<u>Attainment</u>
Riverside County	Attainment
San Bernardino County	Attainment
San Diego Air Basin	Attainment
Northeast Plateau Air Basin	
Lassen County	Unclassified
Modoc County	Unclassified
Siskiyou County	Unclassified

60202. Table of Area Designations for Carbon Monoxide (continued)

Area	Designation
Sacramento Valley Air Basin	
Butte County	
Chico Urbanized Area ²¹	Nonattainment
Remainder of County	Unclassified
Colusa County	Unclassified
Glenn County	Unclassified
Placer County	Unclassified
Sacramento County	
County Portion of Census Bureau Urbanized Area ⁴³	Nonattainment
Remainder of County	Attainment
Shasta County	Unclassified
Solano County	Attainment
Sutter County	Unclassified
Tehama County	Unclassified
Yolo County	Attainment
Yuba County	Unclassified
San Joaquin Valley Air Basin	
Fresno County	
Fresno Urbanized Area ³²	Nonattainment
Remainder of County	Attainment
Kern County	Attainment
Kings County	Unclassified
Madera County	Unclassified
Merced County	Unclassified
San Joaquin County	Attainment
Stockton Urbanized Area²	Nonattainment
Remainder of County	Unclassified
Stanislaus County	Attainment
Modesto Urbanized Area¹	Nonattainment
Remainder of County	Unclassified
Tulare County	Attainment
Great Basin Valleys Air Basin	
Alpine County	Unclassified
Inyo County	Unclassified
Mono County	Attainment
Southeast Desert Air Basin	
Imperial County	Unclassified
Kern County	Unclassified
Los Angeles County	Attainment
Riverside County	Attainment
San Bernardino County	Attainment

60202. Table of Area Designations for Carbon Monoxide (continued)

Area	Designation
Mountain Counties Air Basin	
Amador County	Unclassified
Calaveras County	Unclassified
El Dorado County	Unclassified
Mariposa County	Unclassified
Nevada County	Unclassified
Placer County	Unclassified
Plumas County	Attainment
Sierra County	Unclassified
Tuolumne County	Unclassified
Lake County Air Basin	
Lake County	Attainment
Lake Tahoe Air Basin	
El Dorado County	Nonattainment
Placer County	Unclassified

11. 50 Fed. reg. 12542 (March 29, 1985); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, pages 6/58 (Modesto), 6/74 and 75 (Vallejo), and 6/78 (San Jose).

21. 49 Fed. Reg. 20652 (May 16, 1984); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, page 6-56 (Chico) and 6/80 (Stockton).

32. 50 Fed. Reg. 47735 (November 20, 1985); 45 Fed. Reg. 53149 (August 11, 1980); City of Fresno Department of Planning and Inspection, 1974 General Plan Report of the FCMA, page 4.

43. 56 Fed. Reg. 56724 (November 6, 1991); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, page 6-72.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60203. Table of Area Designations for Nitrogen Dioxide

Area	Designation
North Coast Air Basin	Attainment
San Francisco Bay Area Air Basin	Attainment
North Central Coast Air Basin	Attainment
South Central Coast Air Basin	Attainment
South Coast Air Basin	Nonattainment
San Diego Air Basin	Attainment
Northeast Plateau Air Basin	Attainment
Sacramento Valley Air Basin	Attainment
San Joaquin Valley Air Basin	Attainment
Great Basin Valleys Air Basin	Attainment
Southeast Desert Air Basin	Attainment
Mountain Counties Air Basin	Attainment
Lake County Air Basin	Attainment
Lake Tahoe Air Basin	Attainment

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60204. Table of Area Designations for Sulfur Dioxide

Area	Designation
North Coast Air Basin	Attainment
San Francisco Bay Area Air Basin	
Alameda County	Attainment
Contra Costa County	Attainment
Marin County	Attainment
Napa County	Attainment
San Francisco County	Attainment
San Mateo County	Attainment
Santa Clara County	Attainment
Solano County	Attainment
Sonoma County	Attainment
North Central Coast Air Basin	
Monterey County	Attainment
San Benito County	Attainment
Santa Cruz County	Attainment
South Central Coast Air Basin	
San Luis Obispo County	Attainment
Santa Barbara County	Attainment
Ventura County	Attainment
South Coast Air Basin	
Los Angeles County	Attainment
Orange County	Attainment
Riverside County	Attainment
San Bernardino County	Attainment
San Diego Air Basin	
San Diego County	Attainment
Northeast Plateau Air Basin	
Lassen County	Attainment
Modoc County	Attainment
Siskiyou County	Attainment
Sacramento Valley Air Basin	
Butte County	Attainment
Colusa County	Attainment
Glenn County	Attainment
Placer County	Attainment
Sacramento County	Attainment
Shasta County	Attainment
Solano County	Attainment
Sutter County	Attainment
Tehama County	Attainment
Yolo County	Attainment
Yuba County	Attainment

60204. Table of Area Designations for Sulfur Dioxide (continued)

Area	Designation
San Joaquin Valley Air Basin	
Fresno County	Attainment
Kern County	Attainment
Kings County	Attainment
Madera County	Attainment
Merced County	Attainment
San Joaquin County	Attainment
Stanislaus County	Attainment
Tulare County	Attainment
Great Basin Valleys Air Basin	
Alpine County	Attainment
Inyo County	Attainment
Mono County	Attainment
Southeast Desert Air Basin	
Imperial County	Attainment
Kern County	Unclassified
Los Angeles County	Attainment
Riverside County	Attainment
San Bernardino County	Attainment
Mountain Counties Air Basin	
Amador County	Attainment
Calaveras County	Attainment
El Dorado County	Attainment
Mariposa County	Attainment
Nevada County	Attainment
Placer County	Attainment
Plumas County	Attainment
Sierra County	Attainment
Tuolumne County	Attainment
Lake County Air Basin	
Lake County	Attainment
Lake Tahoe Air Basin	
El Dorado County	Attainment
Placer County	Attainment

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60205. Table of Area Designations for Suspended Particulate Matter (PM10)

Area	Designation
North Coast Air Basin	Nonattainment
San Francisco Bay Area Air Basin	Nonattainment
North Central Coast Air Basin	Nonattainment
South Central Coast Air Basin	Nonattainment
South Coast Air Basin	Nonattainment
San Diego Air Basin	Nonattainment
Northeast Plateau Air Basin	
Modoc and Siskiyou Counties	Nonattainment
Lassen County	Unclassified
Sacramento Valley Air Basin	Nonattainment
San Joaquin Valley Air Basin	Nonattainment
Great Basin Valleys Air Basin	Nonattainment
Southeast Desert Air Basin	Nonattainment
Mountain Counties Air Basin	
Amador, Calaveras, Remainder of Mariposa, and Tuolumne Counties	Unclassified
Mariposa County Portion of Yosemite National Park	Nonattainment
El Dorado, Nevada, Placer, Plumas, and Sierra Counties	Nonattainment
Lake County Air Basin	Attainment
Lake Tahoe Air Basin	Nonattainment

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60206. Table of Area Designations for Sulfates

Area	Designation
North Coast Air Basin	Attainment
San Francisco Bay Area Air Basin	Attainment
North Central Coast Air Basin	Attainment
South Central Coast Air Basin	Attainment
South Coast Air Basin	Nonattainment Attainment
San Diego Air Basin	Attainment
Northeast Plateau Air Basin	Attainment
Sacramento Valley Air Basin	Attainment
San Joaquin Valley Air Basin	Unclassified
Great Basin Valleys Air Basin	Attainment
Southeast Desert Air Basin	
San Bernardino County Portion of Searles Valley Planning Area ¹	Nonattainment
Remainder of Air Basin	Attainment
Mountain Counties Air Basin	Attainment
Lake County Air Basin	Attainment
Lake Tahoe Air Basin	Attainment

1. 52 Fed. Reg. 29384 (August 7, 1987); U.S. Geological Survey 1974, *Hydrologic Unit Map-State of California*, Hydrological Unit #18090205.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60207. Table of Area Designations for Lead (Particulate)

Area	Designation
North Coast Air Basin	
Del Norte County	Attainment
Humboldt County	Attainment
Mendocino County	Attainment
Sonoma County	Attainment
Trinity County	Attainment
San Francisco Bay Area Air Basin	
Alameda County	Attainment
Contra Costa County	Attainment
Marin County	Attainment
Napa County	Attainment
San Francisco County	Attainment
San Mateo County	Attainment
Santa Clara County	Attainment
Solano County	Attainment
Sonoma County	Attainment
North Central Coast Air Basin	
Monterey County	Attainment
San Benito County	Attainment
Santa Cruz County	Attainment
South Central Coast Air Basin	
San Luis Obispo County	Attainment
Santa Barbara County	Attainment
Ventura County	Attainment
South Coast Air Basin	
Los Angeles County	Attainment
Orange County	Attainment
Riverside County	Attainment
San Bernardino County	Attainment
San Diego Air Basin	
San Diego County	Attainment
Northeast Plateau Air Basin	
Lassen County	Attainment
Modoc County	Attainment
Siskiyou County	Attainment
Sacramento Valley Air Basin	
Butte County	Attainment
Colusa County	Attainment
Glenn County	Attainment
Placer County	Attainment
Sacramento County	Attainment
Shasta County	Attainment
Solano County	Attainment
Sutter County	Attainment
Tehama County	Attainment
Yolo County	Attainment
Yuba County	Attainment

60207. Table of Area Designations for Lead (Particulate) (continued)

Area	Designation
San Joaquin Valley Air Basin	
Fresno County	Attainment
Kern County	Attainment
Kings County	Attainment
Madera County	Attainment
Merced County	Attainment
San Joaquin County	Attainment
Stanislaus County	Attainment
Tulare County	Attainment
Great Basin Valleys Air Basin	
Alpine County	Attainment
Inyo County	Attainment
Mono County	Attainment
Southeast Desert Air Basin	
Imperial County	Attainment
Kern County	Attainment
Los Angeles County	Attainment
Riverside County	Attainment
San Bernardino County	Attainment
Mountain Counties Air Basin	
Amador County	Attainment
Calaveras County	Attainment
El Dorado County	Attainment
Mariposa County	Attainment
Nevada County	Attainment
Placer County	Attainment
Plumas County	Attainment
Sierra County	Attainment
Tuolumne County	Attainment
Lake County Air Basin	
Lake County	Attainment
Lake Tahoe Air Basin	
El Dorado County	Attainment
Placer County	Attainment

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60208. Table of Area Designations for Hydrogen Sulfide

Area	Designation
North Coast Air Basin	
Del Norte County	Unclassified
Humboldt County	Attainment
Mendocino County	Unclassified
Sonoma County	
Geyser Geothermal Area ²	Attainment
Remainder of County	Unclassified
Trinity County	Unclassified
San Francisco Bay Area Air Basin	
Alameda County	Unclassified
Contra Costa County	Unclassified
Marin County	Unclassified
Napa County	Unclassified
San Francisco County	Unclassified
San Mateo County	Unclassified
Santa Clara County	Unclassified
Solano County	Unclassified
Sonoma County	Unclassified
North Central Coast Air Basin	
Monterey County	Unclassified
San Benito County	Unclassified
Santa Cruz County	Unclassified
South Central Coast Air Basin	
San Luis Obispo County	Attainment
Santa Barbara County	Attainment
Ventura County	Unclassified
South Coast Air Basin	
Los Angeles County	Unclassified
Orange County	Unclassified
Riverside County	Unclassified
San Bernardino County	Unclassified
San Diego Air Basin	
San Diego County	Unclassified
Northeast Plateau Air Basin	
Lassen County	Unclassified
Modoc County	Unclassified
Siskiyou County	Unclassified

60208. Table of Area Designations for Hydrogen Sulfide (continued)

Area	Designation
Sacramento Valley Air Basin	
Butte County	Unclassified
Colusa County	Unclassified
Glenn County	Unclassified
Placer County	Unclassified
Sacramento County	Unclassified
Shasta County	Unclassified
Solano County	Unclassified
Sutter County	Unclassified
Tehama County	Unclassified
Yolo County	Unclassified
Yuba County	Unclassified
San Joaquin Valley Air Basin	
Fresno County	Unclassified
Kern County	Unclassified
Kings County	Unclassified
Madera County	Unclassified
Merced County	Unclassified
San Joaquin County	Unclassified
Stanislaus County	Unclassified
Tulare County	Unclassified
Great Basin Valleys Air Basin	
Alpine County	Unclassified
Inyo County	Attainment
Mono County	Attainment
Southeast Desert Air Basin	
Imperial County	Unclassified
Kern County	Unclassified
Los Angeles County	Unclassified
Riverside County	Unclassified
San Bernardino County	
County Portion of	
Searles Valley Planning Area ¹	Nonattainment
Remainder of County	Unclassified
Mountain Counties Air Basin	
Amador County	
City of Sutter Creek	Nonattainment
Remainder of County	Unclassified
Calaveras County	Unclassified
El Dorado County	Unclassified
Mariposa County	Unclassified
Nevada County	Unclassified
Placer County	Unclassified
Plumas County	Unclassified
Sierra County	Unclassified
Tuolumne County	Unclassified

60208. Table of Area Designations for Hydrogen Sulfide (continued)

Area	Designation
Lake County Air Basin	
Lake County	Attainment
Lake Tahoe Air Basin	
El Dorado County	Unclassified
Placer County	Unclassified

1. 52 Fed. Reg. 29384 (August 7, 1987); U.S. Geological Survey 1974, *Hydrologic Unit Map-State of California*, Hydrological Unit #18090205.
2. Section 60200(d).

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60209. Table of Area Designations for Visibility Reducing Particles

Area	Designation
North Coast Air Basin	Unclassified
San Francisco Bay Area Air Basin	Unclassified
North Central Coast Air Basin	Unclassified
South Central Coast Air Basin	Unclassified
South Coast Air Basin	Unclassified
San Diego Air Basin	Unclassified
Northeast Plateau Air Basin	Unclassified
Sacramento Valley Air Basin	Unclassified
San Joaquin Valley Air Basin	Unclassified
Great Basin Valleys Air Basin	Unclassified
Southeast Desert Air Basin	Unclassified
Mountain Counties Air Basin	Unclassified
Lake County Air Basin	Attainment
Lake Tahoe Air Basin	Unclassified

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

ATTACHMENT D

Text of the California Code of Regulations, Title 17, Sections 70300 through 70306, and Appendices 1 through 4, Thereof

70300. General Statement of Purpose

The objective of these criteria is to guide the state board in making designations of air basins as attainment, nonattainment, or unclassified for each of the pollutants for which state ambient air quality standards have been established in Section 70200.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

70301. Air Quality Data Used for Designations

(a) Except as otherwise provided in this article, designations shall be based on data for record. "Data for record" are those data collected by or under the auspices of the state board or the districts for the purpose of measuring ambient air quality, and which the executive officer has determined comply with the siting and quality assurance procedures established in Part 58, Title 40, Code of Federal Regulations, as they existed on July 1, 1987, or other equivalent procedures. The executive officer shall also determine within 90 days of submittal of complete supporting documentation whether any other data which are provided by a district or by any other person comply with the siting and quality assurance procedures and shall be data for record. If the executive officer finds there is good cause that 90 days is insufficient time to make a determination, he/she may after notification of the person requesting the data review extend the deadline for completion of the data review.

(b) Except as otherwise provided in this article, designations and reviews of designations shall be based on data for record for the three calendar years prior to the year in which the designation is made or the annual review of the designation is conducted.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

70302. Geographic Extent of Designations

(a) An air basin shall be the area designated for ozone, nitrogen dioxide, suspended particulate matter (PM₁₀), sulfates, and visibility reducing particles. Provided, however, if the state board finds (based on air quality data, meteorology, topography, or the distribution of population and emissions) that there are areas within an air basin with distinctly different air quality deriving from sources and conditions not affecting the entire air basin, the state board may designate an area smaller than an air

basin using political boundary lines to the extent practicable. In designating an area smaller than an air basin as nonattainment, the state board shall include within the area those sources whose emissions contribute to a violation of a standard for that pollutant. Contiguous areas which would have the same designation within an air basin shall be one designated area.

(b) A county or the portion of a county which is located within an air basin shall be the area designated for carbon monoxide, sulfur dioxide, lead (particulate), and hydrogen sulfide. Provided, however, if the state board finds (based on air quality data, meteorology, topography, or the distribution of population and emissions) that there are areas within the county with distinctly different air quality, it may designate a smaller area. In designating an area smaller than a county as nonattainment, the state board shall include within the area those sources whose emissions contribute to a violation of a standard for that pollutant.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 38608, Health and Safety Code.

70303. Criteria for Designating an Area as Nonattainment

(a) The state board shall designate an area as nonattainment for a pollutant if:

(1) Data for record meet the representativeness criteria set forth in "Criteria for Determining Data Representativeness" contained in Appendix 1 to this article and show at least one violation of a state standard for that pollutant in the area; or

(2) Limited or no air quality data were collected in the area, but the state board finds, based on meteorology, topography, and air quality data for an adjacent nonattainment area, that there has been at least one violation of a state standard for that pollutant in the area being designated.

(b) An area shall not be designated as nonattainment if the only recorded violation(s) of that standard were based solely on data for record determined to be affected by a highly irregular or infrequent event. Data affected by a highly irregular or infrequent event will be identified as such by the executive officer in accordance with the "Air Resources Board Procedure for Reviewing Air Quality Data Possibly Affected by a Highly Irregular or Infrequent Event," set forth in Appendix 2 to this article.

(c) The state board shall, if requested by the district no later than July 15, 1990 or no later than May 1 of each year thereafter pursuant to section 70306, identify that portion of a designated area within the district as nonattainment-transitional for a pollutant other than ozone with a standard averaging time less than or equal to 24 hours and continuous sampling (continuous sampling means that samples are routinely collected every day) if it finds that:

(1) Data for record for the previous calendar year are consistent with the criteria established in section 70304(a)(2) and show two or fewer days at all sites in the area with violations of a state standard for that pollutant (not including violations found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2);

(2) Evaluation of multi-year air quality, meteorological and emission data indicates that ambient air quality either has stabilized or is improving and the area is expected to reach attainment within three years; and

(3) The geographic extent of the area is consistent with the criteria established in section 70302.

(d) An area designated as nonattainment-transitional for a pollutant is close to attaining the standard(s) for that pollutant. The nonattainment-transitional designation provides an opportunity for a district to review and potentially to modify its attainment plan. Any modification to an attainment plan must be consistent with state and federal regulations and statutes.

NOTE: Authority Cited: Sections 39600, 39601, 39607, 39608, and 40925.5, Health and Safety Code. Reference: Sections 39607, 39608, and 40925.5, Health and Safety Code.

70303.5. Requirements for Ozone Nonattainment-Transitional

In evaluating whether a district meets the requirements of HSC 40925.5, the Board shall use the following guidelines:

(1) Data for record for the previous calendar year must be consistent with the criteria established in section 70304(a)(2) to ensure that no more than three exceedances have occurred;

(2) All data collected during the previous calendar year will be considered in the evaluation, including data possibly affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2;

(3) Each day with concentration(s) that exceed the state ozone standard will be counted as one exceedance day; and

(4) No monitoring location may have more than three exceedance days during the previous calendar year.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 40925.5, Health and Safety Code. Reference: Sections 39607 and 40925.5, Health and Safety Code.

70304. Criteria for Designating an Area as Attainment

(a) The state board shall designate an area as attainment for a pollutant if:

(1) Data for record show that no state standard for that pollutant was violated at any site in the area; and

(2) Data for record meet representativeness and completeness criteria for a location at which the pollutant concentrations are expected to be high based on the spatial distribution of emission sources in the area and the relationship of emissions to air quality. Data representativeness criteria are set forth in "Criteria for Determining Data Representativeness" contained in Appendix 1 to this article. Data completeness criteria are set forth in "Criteria for Determining Data Completeness" contained in Appendix 3 to this article.

(b) Where there are limited or no air quality data for an area, the state board shall designate the area as attainment for a pollutant if it finds that no state standard for that pollutant has been violated in that area based on:

(1) Air quality data collected in the area during the most recent period since 1980 which meet the conditions in (a) above;

(2) Emissions of that pollutant or its precursors in the area have not increased since that period to a level at which the standard might be exceeded; and

(3) Air quality data collected in the area since the time period in (1) above do not show a violation of the state standard.

(c) Where an area has limited or no air quality data for nitrogen dioxide, sulfur dioxide, sulfates, and lead (particulate), the state board shall designate that area attainment for a pollutant if it finds that no state standard for that pollutant has been violated in that area based on the state board's "Screening Procedure for Determining Attainment Designations for Areas With Incomplete Air Quality Data" set forth in Appendix 4 to this article.

(d) A nonattainment area shall not be redesignated as attainment for a pollutant if:

(1) Data for record for the monitoring site showing the greatest violation of a state standard for that pollutant no longer are available; and

(2) No other site has been identified as equivalent by the executive officer.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

70305. Criteria for Designating an Area as Unclassified

The state board shall designate an area as unclassified for a pollutant if it finds that, except as otherwise provided in this article, the data do not support a designation of attainment or nonattainment.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

70306. Annual Review of Designations

(a) The executive officer shall conduct annual reviews of all designations and shall propose revisions to the designations as necessary to the state board. The executive officer shall complete the annual reviews by November 15.

(b) Any request for a change in a designation and any submittal of information for purposes of the executive officer's consideration in the annual review of a designation shall be provided in writing to the executive officer no later than May 1 of each year commencing with May 1, 1990.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

APPENDIX 1

CRITERIA FOR DETERMINING DATA REPRESENTATIVENESS

This Appendix describes the criteria to be used in determining data representativeness for the purpose of designating areas as described in Article 3, Subchapter 1.5, Chapter 1, Part III, Title 17 (commencing with Section 70300), California Code of Regulations. Representativeness as used here, is only related to whether or not the amount of data reported is deemed sufficiently complete to characterize reliably air quality during the respective time period. No other kind of representativeness is implied. The criteria for representativeness are summarized in the accompanying table and discussed further below.

Air quality statistics are usually computed from short term observed values. For example, an annual arithmetic mean is computed from all available hourly samples. If all the short term values for the statistical time period are available, the calculated statistic is representative. However, because all the short term values for a given period often are not available, a minimum number of observations are needed to provide reasonable assurance that the calculated value is a reliable estimate. In general, statistics are considered representative if 75 percent of the possible short term values are included and are distributed throughout the entire statistical time period.

To ensure that seasonal variations are accounted for, representative annual statistics are required to have four representative calendar quarters of data. For example, if an annual mean is based on 24-hour samples, such as that computed for suspended particulate matter (PM₁₀) samples, three representative months are required for each calendar quarter. A 24-hour particulate sample is collected once every six days or a total of five samples per 31-day month. Therefore, three or fewer samples (less than or equal to 60 percent data recovery) do not meet the criterion for a reliable estimate of the monthly mean concentration. The lack of representativeness of the monthly mean concentrations precludes a reliable estimate of a representative calendar quarter, which in turn precludes the representativeness of an annual statistic. Each level of criteria--hour, day, month, quarter, and year--must be met in order to make a representative annual statistic.

For observations made at less than 24-hour intervals, for example, hourly samples, representativeness depends on whether all the individual values are to be used or only a single daily value is to be used. In general, for representative statistics computed from all of the individual values, such as the mean of all hours, 75 percent of the values in the respective period are required. For representative statistics computed from daily values, such as the monthly mean of daily maximum hours, data from 75 percent of the days in the month are required and the data within those days must meet the relevant representativeness criteria.

CRITERIA FOR REPRESENTATIVENESS OF AIR QUALITY MEASUREMENTS AND STATISTICS

<u>Representative Calendar Statistic</u>	<u>Sampling Time Period</u>	<u>Basis of Statistic or Requirement</u>	<u>Number of Representative Periods Required</u>
Year	Any		4 representative calendar quarters
Quarter	24-hour	Based on a daily sample	3 representative months
	<24-hours	Based on a daily statistic; or	69 or more representative calendar days
		Based on hourly samples	1,643 or more hours
Month	24-hour	Based on daily sample	4 or more 24-hour samples
	<24-hours	Based on a daily statistic; or	23 or more representative calendar days
		Based on all hourly samples; or	548 or more hours
		Based on all 2-hour samples; or	274 or more 2-hour samples
		Based on all 3-hour samples	183 or more 3-hour samples
Day	1-hour		6 or more hours in each 1/3 day (hours 0 thru 7, 8 thru 15, 16 thru 23), and missing no more than 2 consecutive hourly samples
	2-hour	Based on all 2-hour samples	9 or more samples
	3-hour	Based on all 3-hour samples	6 or more samples
	24-hour	Based on daily sample	22 but not more than 26 hours of sampling

	<u>N</u>	<u>Number of Samples Needed</u>
Mean of N Hour Period	24	18 or more hourly samples
	8	6 or more hourly samples
	6	5 or more hourly samples
	4	3 hourly samples
	3	3 hourly samples
	2	2 hourly samples
	1	30 minutes or more of sampling

APPENDIX 2

AIR RESOURCES BOARD PROCEDURE FOR REVIEWING AIR QUALITY DATA POSSIBLY AFFECTED BY A HIGHLY IRREGULAR OR INFREQUENT EVENT

This Appendix describes the procedures that the Air Resources Board (state board) will use for reviewing air quality data possibly affected by a highly irregular or infrequent event with regard to the state ambient air quality standards. All decisions regarding the identification of data as being affected by a highly irregular or infrequent event will be made by the executive officer.

The state board will review air quality data for possible identification as affected by a highly irregular or infrequent event if the data are the only violations of an air quality standard in the area or if such identification would otherwise affect the designation of the area.

Two types of highly irregular or infrequent events may be identified:

1. Exceptional Event.
2. Extreme Concentration Event.

An exceptional event is an event beyond reasonable regulatory control which causes an exceedance of a state standard. An exceptional event must be linked to a specific cause such as an act of nature or unusual human activity. As guidance to the states for determining exceptional events, the federal Environmental Protection Agency (EPA) has published Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events, (EPA-450/4-86-007), July 1986 (the EPA Guideline). The EPA Guideline provides an overall criterion for determining whether an event is exceptional with regard to the national standards. The state board will use the EPA Guideline on a general basis for reviewing ambient data, but will not be bound by the specific definitions in the EPA Guideline for the various types of exceptional events because those definitions are made on a national basis. In addition, since what may be exceptional in one part of the state may be common in another, each possible event will be evaluated on a case-by-case basis.

An extreme concentration event is an event beyond reasonable regulatory control which causes an exceedance of a state standard but which does not qualify as an exceptional event. The causes of an extreme concentration event include but are not limited to unusual meteorology.

The steps for identifying an exceptional event are:

1. A district (or the state board) identifies questionable data.
2. If a known exceptional event has occurred, the district gathers relevant data to document the occurrence.

3. If an exceptional event is only suspected, the district investigates available data for the possible event.
4. The district submits to the executive officer a request for identifying the data as affected by an exceptional event and also provides supporting documentation.
5. If the executive officer concurs with the district, he/she will identify the data as affected by an exceptional event.
6. If the district's request for identifying data as affected by an exceptional event cannot be supported, the district will be notified of the reasons. The executive officer will consider any additional data to support the request, but in the absence of any new evidence, will disapprove the request.

The steps for identifying an extreme concentration event are:

1. A district (or the state board) identifies questionable data.
2. If the event is not an exceptional event, with an identifiable cause, the state board will evaluate the data as affected by an extreme concentration event.
3. In evaluating a possible extreme concentration event, the state board shall use the data for the site at which the event is suspected to determine a limit for concentrations expected to recur no more frequently than once in one year. The limit shall be determined using the "exponential tail method" which is incorporated by reference herein and described in Part I Section B.1. of the "Supplement to the Technical Support Document for Proposed Amendments to the Criteria for Designating Areas of California as Nonattainment, Attainment, or Unclassified for State Ambient Air Quality Standards" (May 1992). Using conventional rounding procedures, the limit shall be rounded to be consistent with the level of precision in which the standard is expressed. If the possible extreme concentration exceeds the estimated concentration, the executive office will consult with the district in identifying the data as affected by an extreme concentration event.
4. When an extreme concentration event is identified, the state board shall review other information, including but not limited to meteorological data, to determine whether air quality data for other sites in the area were affected by the extreme concentration event.

APPENDIX 3

CRITERIA FOR DETERMINING DATA COMPLETENESS

This Appendix describes the criteria to be used in determining data completeness for the purpose of designating areas as attainment or nonattainment-transitional as described in Article 3, Subchapter 1.5, Chapter 1, Part III, Title 17 (commencing with Section 70300), California Code of Regulations. The purpose of these data completeness criteria is to specify the minimum data deemed necessary to assure that sampling occurred at times when a violation is most likely to occur.

Complete Data

Data for a site will be deemed complete if there are representative data (as determined in accordance with the Representativeness Criteria in Appendix 1) during the required hours (see below) of the day during the required months (see below) for the required years (see below).

Required Hours

The hours of potentially high concentration must be included. Unless a detailed evaluation determines different hours to be appropriate for a specific site, these hours are:

<u>Pollutant</u>	<u>Hours (PST)</u>
Ozone	9 am - 5 pm
Carbon Monoxide	3 pm - 9 am (next day)
Nitrogen Dioxide	8 am - 8 pm
Visibility Reducing Particles	10 am - 6 pm
Other Pollutants	Throughout day

Required Months

The months of potentially high concentrations must be included. Unless a detailed evaluation determines different months to be appropriate for a specific site, these months are:

<u>Pollutant</u>	<u>Months</u>
Ozone	July - September
Carbon Monoxide	January, November - December
Nitrogen Dioxide	October - December
Sulfur Dioxide	September - December
Sulfates	January, June - December
Lead (Particulate)	January, November - December
Other Pollutants	January - December

Required Years *

The number of years to be included is:

- a) Three; or
- b) Two, if during these years the maximum pollutant concentration (not including data found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2) is less than three-fourths the applicable state ambient air quality standard; or
- c) One, if during this year the maximum pollutant concentration (not including data found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2) is less than one-half the applicable state ambient air quality standard.

* In Attachment D, text in bold indicates amendments that were adopted by the Air Resources Board on November 18, 1993, but not yet filed with the Secretary of State.

APPENDIX 4

SCREENING PROCEDURE FOR DETERMINING ATTAINMENT DESIGNATIONS FOR AREAS WITH INCOMPLETE AIR QUALITY DATA

This Appendix describes the screening procedure that will serve as the basis for making a pollutant-specific finding under Section 70304(c) that the state ambient air quality standard is being attained for areas with no or an incomplete air quality data record. The procedure is applicable only for nitrogen dioxide, sulfur dioxide, sulfates, and lead (particulate). For those areas with some air quality data for the prior three years, the screening procedure will be applied for a pollutant only if the maximum concentrations of that pollutant in the area did not exceed 75 percent of the state standard(s).

<u>Pollutant</u>	<u>Screening Parameters</u>	<u>Screening Values</u>
Nitrogen Dioxide	a) Basin Population	1,000,000 people
	b) Total Annual NO _x Emissions in Air Basin	40,000 tons/yr
	c) Total Annual Point Source NO _x Emissions in County	2,100 tons/yr
Sulfur Dioxide	a) Total Annual Point Source SO _x Emissions in County	1,700 tons/yr
	b) Maximum Annual SO _x Emissions from Single Facility in County	900 tons/yr
Sulfates	a) Total Annual SO _x Emissions in Air Basin	19,000 tons/yr
	b) Total Annual Point Source SO _x Emissions in County	1,700 tons/yr
	c) Maximum Annual SO _x Emissions from Single Facility in County	900 tons/yr
Lead	a) County Population	600,000 people
	b) Maximum Annual Lead Emissions from Single Facility in County	0.5 tons/yr

For an area to which these values are applied, the local values of the applicable screening parameters will be compared to the respective screening values. The area will be presumed to be attainment if none of the applicable screening parameters for a pollutant exceed the associated screening values.

ATTACHMENT E

EXPECTED PEAK DAY CONCENTRATIONS AND DESIGNATION VALUES

This Attachment contains the Expected Peak Day Concentrations for various pollutants. The Expected Peak Day Concentration (EPDC) represents the concentration that is statistically estimated to recur once per year. In the area designation process, measured concentrations that are higher than the calculated EPDC, after the EPDC is rounded to the precision of the relevant State standard, are identified as extreme concentrations and are not considered violations of the standard. The highest measured concentration remaining at a given site after all extreme concentrations are excluded is called the Designation Value (DV). If the highest Designation Value within an area is not a violation of the state standard, and all other criteria are met, then the area can be considered in attainment for that pollutant.

The EPDCs and DVs listed in this Attachment are based on air quality data collected during 1991 through 1993. This is the most recent three-year period for which air quality data are available and is the same three-year period used in reviewing the area designations described in the accompanying Staff Report. The EPDCs and DVs are listed for each site in the state with appropriate data. Concentrations are listed for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide (hourly average), sulfur dioxide (24-hour average), suspended particulate matter or PM10, sulfates, and hydrogen sulfide in Tables E-1 through E-8, respectively. No concentrations are listed for lead because all areas of the state are currently designated as attainment for this pollutant. In addition, no concentrations are listed for visibility reducing particles because suitable data are not available for making the calculations.

The EPDCs and DVs listed here are based on all available data. However, in some cases, the data may not be complete or representative. Therefore, the resulting EPDCs and DVs also may not be representative. Individuals using the information presented in this Attachment are encouraged to contact the Air Resources Board's Technical Support Division to determine whether the data of concern indeed are complete and representative.

Finally, it is important to note that the EPDC is the same indicator which the Air Resources Board endorsed for the districts to use as an indicator in reporting their progress toward attainment of the state standards, as required by the Health and Safety Code subsections 40924(b) and (c). The use of the EPDC is described more fully in the document titled: "Guidance for Using Air Quality-Related Indicators in Reporting Progress in Attaining the State Ambient Air Quality Standards" (Air Resources Board, September 1993).

TABLE E-1

Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH COAST AIR BASIN</u>					
DEL NORTE	0800654	GASQUET-AIRPORT	6.14	6	713
MENDOCINO	2300769	UKIAH-E GOBBI STREET	7.03	7	426
SONOMA	4900899	HEALDSBURG-MUNICIPAL AP	8.69	9	640
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
ALAMEDA	6000336	FREMONT-CHAPEL WAY	11.10	11	1095
	6000337	HAYWARD-LA MESA	8.94	9	1091
	6000339	OAKLAND-ALICE	6.47	6	1095
	6000340	LIVERMORE OLD FIRST ST	12.52	13	1092
	6000343	SAN LEANDRO-CO HOSPITAL	10.28	10	1092
CONTRA COSTA	0700430	PITTSBURG	10.23	10	1092
	0700433	RICHMOND-13TH ST	7.83	8	1090
	0700440	CONCORD-2975 TREAT BLVD	10.73	11	1094
	0700442	BETHEL ISLAND RD	11.08	11	1095
MARIN	2100451	SAN RAFAEL	7.50	8	1091
NAPA	2800783	NAPA-JEFFERSON ST	9.72	10	1064
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	5.93	6	1087
SAN MATEO	4100541	REDWOOD CITY	7.48	7	1094
SANTA CLARA	4300380	LOS GATOS	11.76	12	1082
	4300382	SAN JOSE-4TH ST	10.84	11	1092
	4300387	MOUNTAIN VIEW-CUESTA	9.73	10	1093
	4300389	GILROY-9TH ST	11.63	12	1093
	4300390	SAN JOSE-W SAN CARLOS ST	10.23	10	1082
	4300392	SAN JOSE-PIEDMONT STREET	11.58	11	494
SOLANO	4800875	FAIRFIELD-BAAQMD	10.20	10	1093
	4800879	VALLEJO-TUOLUMNE	9.31	9	1094
SONOMA	4900887	SONOMA-1ST ST	8.96	9	810
	4900893	SANTA ROSA-837 FIFTH ST	8.03	8	1094
<u>NORTH CENTRAL COAST AIR BASIN</u>					
MONTEREY	2700544	SALINAS-II	6.77	7	1062
	2700550	CARMEL VALLEY-35 FORD RD	8.98	9	1057
	2700551	KING CITY-750 METZ ROAD	8.77	9	1052
	2700552	MONTEREY-SILVER CLOUD CT	8.65	9	479
SAN BENITO	3500823	HOLLISTER-1979 FAIRVIEW	10.27	10	1095
	3500824	PINNACLES NATL MONUMENT	11.02	11	1016

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH CENTRAL COAST AIR BASIN (continued)</u>					
SANTA CRUZ	4400850	SANTA CRUZ-966 BOSTWICK	8.45	8	1087
	4400851	DAVENPORT	7.24	7	1037
	4400852	WATSONVILLE-444 AIRPORT	9.41	9	516
	4400853	SCOTTS VALLEY-VINE HILL	10.11	10	507
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000833	MORRO BAY	7.43	7	1095
	4000834	NIPOMO	8.60	9	1078
	4000835	SAN LUIS OBISPO-MARSH	7.68	8	1085
	4000844	GROVER CITY-LESAGE DRIVE	7.23	7	1077
	4000847	ATASCADERO-LEWIS AVENUE	9.77	10	1023
	4000849	NIPOMO-1300 GUADALUPE RD	8.32	8	896
SANTA BARBARA	4000850	PASO ROBLES-235 SANTA FE	9.58	9	832
	4200363	GOLETA	10.82	11	1043
	4200369	SANTA YNEZ AIRPORT	9.69	10	1077
	4200370	EL CAPITAN BEACH	10.27	10	1069
	4200381	LOMPOC-128 SOUTH H ST	8.31	8	1038
	4200387	SANTA MARIA-BROADWAY	6.00	6	1036
	4200388	SANTA BARBARA-3 W CARILLO	9.79	10	1087
	4200389	BATTLES-BETTERAVIA ROAD	8.65	9	997
	4200390	VANDENBERG-STS POWER PLNT	9.77	10	943
	4200391	VANDENBERG-PT ARGUELLO	10.18	10	991
	4200392	JALAMA BEACH COUNTY PARK	8.95	9	879
	4200394	LOMPOC-HS & P	9.63	10	1001
	4200395	LOS PADRES NF-PARADISE RD	11.34	11	1002
	4200396	GAVIOTA-WEST (CHEVRON)	10.69	11	1002
	4200397	GAVIOTA-EAST (CHEVRON)	10.76	11	1002
	4200398	GAVIOTA TC-SITE A	10.44	10	750
	4200399	GAVIOTA TC-SITE B NOJOQUI	11.25	11	1002
	4200400	GAVIOTA TC-SITE C	10.96	11	972
	4200401	SANTA BARBARA-UC W CAMPUS	10.38	10	1004
	4200402	CARPINTERIA-GOBERNADOR RD	11.57	12	988
VENTURA	5600427	PIRU-2SW	12.38	12	1093
	5600429	VENTURA CO-W CASITAS PASS	13.42	13	1057
	5600430	OJAI-1768 MARICOPA HWY	13.40	13	1083
	5600433	VENTURA-EMMA WOOD ST BCH	11.53	12	1019
	5600434	SIMI VALLEY-5400 COCHRAN	15.68	16	1082
	5600435	THOUSAND OAKS-MOORPARK RD	13.19	13	639
	5600436	EL RIO-RIO MESA SCHOOL #2	12.50	13	671

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000060	AZUSA	25.82	26	1096
	7000069	BURBANK	21.95	22	1095
	7000072	NORTH LONG BEACH	13.19	13	1095
	7000074	RESEDA	18.89	19	1095
	7000075	POMONA	23.59	24	1094
	7000080	WHITTIER	19.71	19	1096
	7000084	LYNWOOD	13.57	14	1096
	7000085	PICO RIVERA	21.93	22	1094
	7000087	LOS ANGELES-N. MAIN	17.76	18	1090
	7000088	PASADENA-WILSON	24.03	24	1083
	7000089	SANTA CLARITA-SAN FERNAND	22.89	22	1094
	7000091	WEST LOS ANGELES-VA HOSP	16.49	16	1096
	7000094	HAWTHORNE	12.79	13	1096
	7000591	GLENDORA-LAUREL	28.49	28	1078
	3000176	ANAHEIM	18.15	18	1096
	3000177	LA HABRA	19.59	19	1094
ORANGE	3000186	EL TORO	16.89	17	1095
	3000190	LOS ALAMITOS-ORANGEWOOD	15.48	15	1094
	3000195	COSTA MESA-MESA VERDE DR	13.84	14	1086
	3300141	HEMET-STATE ST	15.94	16	1095
RIVERSIDE	3300144	RIVERSIDE-RUBIDOUX	23.91	24	1090
	3300149	PERRIS	19.78	20	1093
	3300155	NORCO-NORCONIAN	20.77	21	1093
	3300159	LAKE ELSINORE	18.84	19	908
	3300160	TEMECULA-30250 RANCHO CA	12.32	12	778
	3600175	UPLAND-ARB	24.69	25	1095
SAN BERNARDINO	3600181	LAKE GREGORY	25.19	25	1096
	3600197	FONTANA-ARROW HWY	24.92	25	1096
	3600203	SAN BERNARDINO-FOURTH ST	23.81	24	1096
	3600204	REDLANDS-DEARBORN	24.22	23	1096
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	13.08	13	1091
	8000115	ESCONDIDO-VALLEY PKWY	14.28	14	1095
	8000123	SAN DIEGO-OVERLAND	14.55	15	1086
	8000128	ALPINE-VICTORIA	14.87	15	1088
	8000131	EL CAJON-REDWOOD AVE	13.31	13	1089

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN DIEGO AIR BASIN (continued)</u>					
SAN DIEGO (cont'd)	8000133	DEL MAR-MIRACOSTA COLLEGE	13.82	14	1093
	8000134	OCEANSIDE-1701 MISSION AVE	13.33	13	1095
	8000138	SAN DIEGO-330A 12TH AVE	12.79	13	1095
	8000139	OTAY MESA-1100 PASEO INTL	12.54	13	1095
<u>NORTHEAST PLATEAU AIR BASIN</u>					
SISKIYOU	4700861	YREKA	7.23	7	704
<u>SACRAMENTO VALLEY AIR BASIN</u>					
BUTTE	0400628	CHICO-MANZANITA	8.99	9	1063
COLUSA	0600643	COLUSA-FAIRGROUNDS	10.76	11	808
GLENN	1100673	WILLOWS-VILLA AVE	10.23	10	995
PLACER	3100813	AUBURN-DEWITT-C AVE	13.66	14	772
	3100820	ROCKLIN-5000 ROCKLIN RD	13.68	14	973
SACRAMENTO	3400286	SACTO-MEADOWVIEW RD	11.25	11	759
	3400287	FOLSOM	15.73	16	945
	3400293	CITRUS HTS-SUNRISE BLVD	13.26	13	806
	3400294	NORTH HIGHLANDS-BLACKFOOT	11.44	11	764
	3400295	SACRAMENTO-DEL PASO MANOR	13.67	13	1028
	3400305	SACRAMENTO-1309 T STREET	11.30	11	1056
	3400307	SACRAMENTO-EARHART DRIVE	11.78	12	1035
	3400310	ELK GROVE-BRUCEVILLE ROAD	10.87	10	392
SHASTA	4500555	REDDING-H.D. ROOF	11.10	11	502
SUTTER	5100897	PLEASANT GROVE-4SW	10.99	11	966
	5100898	YUBA CITY-ALMOND STREET	11.01	11	1042
TEHAMA	5200909	RED BLUFF-1760 WALNUT ST	10.64	11	943
YOLO	5700577	DAVIS-UCD CAMPUS	10.40	10	855
	5700579	WOODLAND-40 SUTTER STREET	11.01	11	630
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000230	PARLIER	15.21	15	1085
	1000244	FRESNO-4706 E DRUMMOND	14.88	15	1080
	1000245	FRESNO-SIERRA SKYPARK #2	13.58	14	884
	1000246	FRESNO-3425 FIRST STREET	16.20	16	1053
	1000248	CLOVIS-908 N VILLA AVENUE	15.43	15	1088

TABLE E-1 (continued)

**Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN JOAQUIN VALLEY AIR BASIN (continued)</u>					
KERN	1500203	BAKERSFIELD-CHESTER ST	13.15	13	1079
	1500242	EDISON	15.20	15	1083
	1500243	OILDALE-3311 MANOR	12.36	12	1081
	1500246	MARICOPA-SCHOOL	11.84	12	961
	1500247	ARVIN	15.24	15	1025
	1500248	SHAFTER	11.13	11	1085
KINGS	1600701	HANFORD	10.61	11	928
MADERA	2000003	MADERA-HEALTH DEPT	12.49	12	1017
MERCED	2400528	MERCED-385 S COFFEE AVE	12.53	13	764
SAN JOAQUIN	3900252	STOCKTON-HAZELTON ST	11.03	11	1075
	3900267	STOCKTON-13521 E MARIPOSA	11.72	12	1026
STANISLAUS	5000568	MODESTO-814 14TH ST	11.93	12	1089
	5000573	TURLOCK-900 S MINARET	11.69	12	577
TULARE	5400568	VISALIA-CHURCH STREET	13.40	13	1062
<u>GREAT BASIN VALLEYS AIR BASIN</u>					
INYO	1400723	BISHOP-157 SHORT STREET	8.90	8	604
MONO	2600785	MAMMOTH LAKES-GATEWAY HC	10.61	10	724
<u>SOUTHEAST DESERT AIR BASIN</u>					
IMPERIAL	1300694	EL CENTRO-150 9TH ST	11.94	12	1051
	1300695	CALEXICO-900 GRANT STREET	15.88	15	744
LOS ANGELES	7000096	LANCASTER-W PONDERA ST	15.79	16	1093
RIVERSIDE	3300137	PALM SPRINGS-FIRE STN	15.81	16	1070
	3300150	BANNING-ALLESANDRO	17.77	18	1086
	3300157	INDIO-JACKSON	14.87	14	1093
	3300161	BLYTHE-449 W MURPHY ST	9.08	9	429
SAN BERNARDINO	3600155	BARSTOW	12.12	12	968
	3600188	TRONA-MARKET ST	9.99	10	973
	3600191	TWENTYNINE PALMS-ADOBE	12.60	13	920
	3600201	HESPERIA-17288 OLIVES	19.22	19	1081
	3600207	PHELAN	19.21	19	1069
	3600209	VICTORVILLE-ARMAGOSA	16.85	17	948

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Ozone Standard is 9 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>MOUNTAIN COUNTIES AIR BASIN</u>					
AMADOR	0300614	JACKSON-201 CLINTON ROAD	11.59	12	595
EL DORADO	0900690	PLACERVILLE-GOLD NUGGET	12.07	12	588
NEVADA	2900794	TRUCKEE-FIRE STATION	7.34	7	246
	2900797	NEVADA CITY-WILLOW VALLEY	10.17	10	601
PLACER	3100818	COLFAX-CITY HALL	11.84	12	577
PLUMAS	3200821	QUINCY-267 N CHURCH ST	8.44	8	274
TUOLUMNE	5500930	SONORA-251 S BARRETTA ST	10.08	10	517
<u>LAKE COUNTY AIR BASIN</u>					
LAKE	1700713	LAKEPORT-LAKEPORT BLVD	7.61	8	1089
<u>LAKE TAHOE AIR BASIN</u>					
EL DORADO	0900691	S LAKE TAHOE-3337 SANDY	7.76	8	393

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-2

**Carbon Monoxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

8-Hour Average Concentrations in parts per million (ppm)
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH COAST AIR BASIN</u>					
MENDOCINO	2300769	UKIAH-E GOBBI STREET	1.97	2.0	391
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
ALAMEDA	6000336	FREMONT-CHAPEL WAY	4.33	4.3	1090
	6000339	OAKLAND-ALICE	5.38	5.1	1083
	6000340	LIVERMORE OLD FIRST ST	3.87	3.9	1089
CONTRA COSTA	0700430	PITTSBURG	3.97	4.0	1073
	0700433	RICHMOND-13TH ST	3.64	3.6	1084
	0700440	CONCORD-2975 TREAT BLVD	4.90	4.8	1083
	0700442	BETHEL ISLAND RD	2.03	2.0	1087
MARIN	2100451	SAN RAFAEL	4.66	4.7	1070
NAPA	2800783	NAPA-JEFFERSON ST	5.32	5.3	1077
SAN FRANCISCO	9000303	SAN FRANCISCO-ELLIS ST	6.17	5.5	1089
	9000306	SAN FRANCISCO-10 ARKANSAS	5.29	5.3	1088
SAN MATEO	4100541	REDWOOD CITY	5.19	4.9	1087
SANTA CLARA	4300382	SAN JOSE-4TH ST	9.04	8.3	1038
	4300389	GILROY-9TH ST	3.09	3.0	1088
	4300390	SAN JOSE-W SAN CARLOS ST	7.51	7.3	1091
SOLANO	4800879	VALLEJO-TUOLUMNE	8.02	7.9	1091
SONOMA	4900893	SANTA ROSA-837 FIFTH ST	3.91	3.8	1084
<u>NORTH CENTRAL COAST AIR BASIN</u>					
MONTEREY	2700544	SALINAS-II	2.44	2.4	969
	2700551	KING CITY-750 METZ ROAD	1.22	1.1	1067
SANTA CRUZ	4400851	DAVENPORT	1.92	1.1	890
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000835	SAN LUIS OBISPO-MARSH	3.33	3.3	1088
SANTA BARBARA	4200363	GOLETA	2.09	2.1	1042
	4200381	LOMPOC-128 SOUTH H ST	2.02	2.0	1062
	4200388	SANTA BARBARA-3 W CARILLO	5.93	5.9	930
	4200390	VANDENBERG STS POWER PLNT	0.49	0.5	925
VENTURA	5600434	SIMI VALLEY-5400 COCHRAN	3.78	3.7	1075
	5600436	EL RIO-RIO MESA SCHOOL #2	2.11	1.6	418

TABLE E-2 (continued)

**Carbon Monoxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

8-Hour Average Concentrations in parts per million (ppm)
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000060	AZUSA	4.87	4.7	1086
	7000069	BURBANK	10.71	10.6	1088
	7000072	NORTH LONG BEACH	8.26	8.1	1033
	7000074	RESEDA	10.53	10.1	1083
	7000075	POMONA	6.83	6.8	1083
	7000080	WHITTIER	7.17	7.1	1089
	7000084	LYNWOOD	16.31	15.7	1083
	7000085	PICO RIVERA	8.16	8.1	1085
	7000087	LOS ANGELES-N MAIN	8.75	8.7	1073
	7000088	PASADENA-WILSON	8.22	7.6	1075
	7000089	SANTA CLARITA-SAN FERNANDO	3.98	3.9	1081
	7000091	WEST LOS ANGELES-VA HOSP	5.79	5.7	1089
	7000094	HAWTHORNE	11.68	11.3	1085
	3000176	ANAHEIM	8.65	8.6	1087
ORANGE	3000177	LA HABRA	8.15	8.0	1079
	3000186	EL TORO	4.62	4.5	1080
RIVERSIDE	3000195	COSTA MESA-MESA VERDE DR	8.41	8.3	1085
	3300144	RIVERSIDE-RUBIDOUX	5.44	5.3	1088
	3300146	RIVERSIDE-MAGNOLIA	6.28	6.3	1063
	3300160	TEMECULA-30250 RANCHO CA	3.10	3.1	610
SAN BERNARDINO	3600203	SAN BERNARDINO-FOURTH ST	5.49	5.4	1089
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	3.76	3.8	1074
	8000115	ESCONDIDO-VALLEY PKWY	7.21	7.1	1087
	8000123	SAN DIEGO-OVERLAND	3.45	3.4	1082
	8000130	SAN DIEGO-1133 UNION ST	7.02	6.8	1077
	8000131	EL CAJON-REDWOOD AVE	5.14	5.1	1088
	8000134	OCEANSIDE-1701 MISSION AVE	3.58	3.6	1086
	8000138	SAN DIEGO-330A 12TH AVE	6.98	7.0	1087
	8000139	OTAY MESA-1100 PASEO INTL	4.17	4.1	1083

TABLE E-2 (continued)

**Carbon Monoxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

8-Hour Average Concentrations in parts per million (ppm)
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SACRAMENTO VALLEY AIR BASIN</u>					
BUTTE	0400628	CHICO-MANZANITA	4.76	4.6	1054
	0400633	CHICO-SALEM ST *	8.16	7.9	790
PLACER	3100820	ROCKLIN-5000 ROCKLIN RD	2.30	2.3	752
SACRAMENTO	3400289	SACRAMENTO-EL CAMINO/WATT	10.29	10.3	1091
	3400293	CITRUS HTS-SUNRISE BLVD	5.63	5.6	786
	3400294	NORTH HIGHLANDS-BLACKFOOT	4.49	4.5	1056
	3400295	SACRAMENTO-DEL PASO MANOR	7.83	7.8	1073
	3400305	SACRAMENTO-1309 T STREET	9.36	9.4	1037
	3400307	SACRAMENTO-EARHART DRIVE	5.24	4.8	946
SHASTA	4500555	REDDING-H.D. ROOF	1.70	1.6	287
SUTTER	5100898	YUBA CITY-ALMOND STREET	6.83	6.4	871
YOLO	5700579	WOODLAND-40 SUTTER STREET	3.29	3.3	453
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000230	PARLIER	2.02	2.0	1067
	1000244	FRESNO-4706 E DRUMMOND	5.56	5.5	1072
	1000245	FRESNO-SIERRA SKYPARK #2	2.72	2.7	1085
	1000246	FRESNO-3425 FIRST STREET **	8.92	8.0	1084
	1000248	CLOVIS-908 N VILLA AVENUE	4.06	3.9	1091
KERN	1500203	BAKERSFIELD-CHESTER ST	6.39	6.1	1076
	1500242	EDISON	2.07	2.0	1059
	1500243	OILDALE-3311 MANOR	1.98	2.0	1055
MERCED	2400529	MERCED-415 W 18TH STREET	5.64	5.4	87
SAN JOAQUIN	3900252	STOCKTON-HAZELTON ST	6.91	6.5	1012
	3900266	STOCKTON-4310 CLAREMONT	8.80	8.6	1055
STANISLAUS	5000568	MODESTO-814 14TH ST	8.68	8.6	1079
	5000573	TURLOCK-900 S MINARET	3.61	3.6	572
TULARE	5400568	VISALIA-CHURCH STREET	4.84	4.8	1088

* While the Chico-Salem site shows no CO violations, the Chico Urbanized Area is not redesignated to attainment because the data are incomplete and do not meet the representativeness criteria.

** While the Fresno-First Street site shows no CO violations, the Fresno Urbanized Area is not redesignated to attainment because the Board staff has determined that this site is not equivalent to the prior high CO site at Olive Street on which the nonattainment designation was based.

TABLE E-2 (continued)

**Carbon Monoxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

8-Hour Average Concentrations in parts per million (ppm)
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded;
6 ppm for the Lake Tahoe Air Basin, not to be equalled or exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>GREAT BASIN VALLEYS AIR BASIN</u>					
INYO	1400723	BISHOP-157 SHORT STREET	3.33	3.3	685
MONO	2600785	MAMMOTH LAKES-GATEWAY HC	4.60	4.6	794
<u>SOUTHEAST DESERT AIR BASIN</u>					
LOS ANGELES	7000096	LANCASTER-W PONDERA ST	6.11	5.9	1083
RIVERSIDE	3300137	PALM SPRINGS-FIRE STN	2.03	2.0	1001
SAN BERNARDINO	3600155	BARSTOW	3.40	3.4	895
	3600201	HESPERIA-17288 OLIVES	3.64	3.5	1053
	3600207	PHELAN	2.16	2.0	1056
<u>MOUNTAIN COUNTIES AIR BASIN</u>					
AMADOR	0300614	JACKSON-201 CLINTON ROAD	1.94	1.9	603
EL DORADO	0900690	PLACERVILLE-GOLD NUGGET	1.20	1.1	581
NEVADA	2900797	NEVADA CITY-WILLOW VALLEY	0.59	0.1	304
TUOLUMNE	5500930	SONORA-251 S BARRETTA ST	2.63	2.6	500
<u>LAKE TAHOE AIR BASIN</u>					
EL DORADO	0900683	S LAKE TAHOE-STATELINE	8.25	7.6	996

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-3

**Nitrogen Dioxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH COAST AIR BASIN</u>					
MENDOCINO	2300769	UKIAH-E GOBBI STREET	5.92	5	336
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
ALAMEDA	6000336	FREMONT-CHAPEL WAY	11.14	11	1085
	6000340	LIVERMORE OLD FIRST ST	10.25	10	1092
CONTRA COSTA	0700430	PITTSBURG	8.38	8	1090
	0700433	RICHMOND-13TH ST	8.17	8	1089
	0700440	CONCORD-2975 TREAT BLVD	9.55	10	1094
	0700442	BETHEL ISLAND RD	6.73	7	1088
MARIN	2100451	SAN RAFAEL	8.42	8	1078
NAPA	2800783	NAPA-JEFFERSON ST	8.15	8	1094
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	9.88	10	1078
SAN MATEO	4100541	REDWOOD CITY	10.99	11	1095
SANTA CLARA	4300382	SAN JOSE-4TH ST	13.99	14	1096
	4300390	SAN JOSE-W SAN CARLOS ST	13.22	13	1087
SOLANO	4800879	VALLEJO-TUOLUMNE	8.59	9	1087
SONOMA	4900893	SANTA ROSA-837 FIFTH ST	8.15	8	1075
<u>NORTH CENTRAL COAST AIR BASIN</u>					
MONTEREY	2700544	SALINAS-II	6.35	6	1095
	2700551	KING CITY-750 METZ ROAD	3.99	4	999
SANTA CRUZ	4400851	DAVENPORT	4.84	5	904
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000834	NIPOMO	5.28	5	1089
	4000835	SAN LUIS OBISPO-MARSH	6.94	7	1072
	4000844	GROVER CITY-LESAGE DRIVE	5.72	6	1078
	4000845	SAN LUIS OBISPO-7020 LEWIS	3.82	4	1023
	4000847	ATASCADERO-LEWIS AVENUE	7.21	7	1072

TABLE E-3 (continued)

**Nitrogen Dioxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

AIR BASIN/COUNTY	SITE #	SITE NAME	EPDC*	DV*	OBS*
------------------	--------	-----------	-------	-----	------

SOUTH CENTRAL COAST AIR BASIN (continued)

SANTA BARBARA	4200363	GOLETA	7.01	7	1003	
	4200370	EL CAPITAN BEACH	6.11	6	1064	
	4200381	LOMPOC-128 SOUTH H ST	5.56	6	1020	
	4200388	SANTA BARBARA-3 W CARILLO	9.85	10	1091	
	4200389	BATTLES-BETTERAVIA ROAD	5.45	5	1001	
	4200390	VANDENBERG-STS POWER PLNT	2.52	3	991	
	4200391	VANDENBERG-PT ARGUELLO	2.68	3	997	
	4200392	JALAMA BEACH COUNTY PARK	2.39	2	873	
	4200393	POINT CONCEPTION	3.72	4	938	
	4200394	LOMPOC-HS & P	2.23	2	999	
	4200395	LOS PADRES NF-PARADISE RD	2.18	2	990	
	4200396	GAVIOTA-WEST (CHEVRON)	4.55	5	995	
	4200397	GAVIOTA-EAST (CHEVRON)	4.51	5	997	
	4200398	GAVIOTA TC-SITE A	7.03	7	758	
	4200399	GAVIOTA TC-SITE B NOJOQUI	4.85	5	996	
	4200400	GAVIOTA TC-SITE C	4.64	5	973	
	4200401	SANTA BARBARA-UC W CAMPUS	7.11	7	1004	
	4200402	CARPINTERIA-GOBERNADOR RD	5.52	6	993	
	VENTURA	5600429	VENTURA CO-W CASITAS PASS	4.24	4	1013
		5600430	OJAI-1768 MARICOPA HWY	5.69	6	1071
		5600433	VENTURA-EMMA WOOD ST BCH	7.70	8	983
		5600434	SIMI VALLEY-5400 COCHRAN	10.40	10	1040
		5600435	THOUSAND OAKS-MOORPARK RD	9.01	9	463
		5600436	EL RIO-RIO MESA SCHOOL #2	7.25	7	663

SOUTH COAST AIR BASIN

LOS ANGELES	7000060	AZUSA	20.23	20	1096
	7000069	BURBANK	21.36	21	1087
	7000072	NORTH LONG BEACH	22.52	21	1089
	7000074	RESEDA	16.29	16	1078
	7000075	POMONA	20.70	20	1087
	7000080	WHITTIER	21.38	21	1093
	7000084	LYNWOOD	23.69	24	1094
	7000085	PICO RIVERA	24.42	24	1089
	7000087	LOS ANGELES-N MAIN	28.28	28	1079
7000088	PASADENA-WILSON	23.04	23	1090	

TABLE E-3 (continued)

**Nitrogen Dioxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH COAST AIR BASIN (continued)</u>					
LOS ANGELES (cont'd)	7000089	SANTA CLARITA-SAN FERNANDO	12.74	13	1091
	7000091	WEST LOS ANGELES-VA HOSP	17.49	17	1094
	7000094	HAWTHORNE	18.27	18	1069
	7000591	GLEN DORA-LAUREL	18.65	19	1031
ORANGE	3000176	ANAHEIM	21.87	21	1088
	3000177	LA HABRA	19.55	20	1091
	3000195	COSTA MESA-MESA VERDE DR	16.21	16	1090
RIVERSIDE	3300144	RIVERSIDE-RUBIDOUX	15.76	16	1074
	3300160	TEMECULA-30250 RANCHO CA	12.32	12	560
SAN BERNARDINO	3600175	UPLAND-ARB	16.59	16	1095
	3600197	FONTANA-ARROW HWY	15.50	14	1093
	3600203	SAN BERNARDINO-FOURTH ST	15.61	16	1085
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	11.90	12	1089
	8000115	ESCONDIDO-VALLEY PKWY	13.57	14	1088
	8000123	SAN DIEGO-OVERLAND	13.33	13	1072
	8000128	ALPINE-VICTORIA	7.78	8	1077
	8000131	EL CAJON-REDWOOD AVE	11.99	12	1090
	8000134	OCEANSIDE-1701 MISSION AVE	15.38	13	1076
	8000138	SAN DIEGO-330A 12TH AVE	14.75	14	1093
	8000139	OTAY MESA-1100 PASEO INTL	11.21	11	1032
<u>SACRAMENTO VALLEY AIR BASIN</u>					
BUTTE	0400628	CHICO-MANZANITA	8.12	8	1048
PLACER	3100820	ROCKLIN-5000 ROCKLIN RD	8.37	8	751
SACRAMENTO	3400287	FOLSOM	11.38	11	1000
	3400293	CITRUS HTS-SUNRISE BLVD	11.30	11	769
	3400294	NORTH HIGHLANDS-BLACKFOOT	10.93	11	898
	3400295	SACRAMENTO-DEL PASO MANOR	13.35	13	748
	3400305	SACRAMENTO-1309 T STREET	11.30	11	1067
	3400307	SACRAMENTO-EARHART DRIVE	9.57	10	1034
SUTTER	5100898	YUBA CITY-ALMOND STREET	9.17	9	882

TABLE E-3 (continued)

**Nitrogen Dioxide Expected Peak Day Concentrations
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000244	FRESNO-4706 E DRUMMOND	11.54	12	1085
	1000245	FRESNO-SIERRA SKYPARK #2	9.20	9	1086
	1000246	FRESNO-3425 FIRST STREET	12.12	12	1084
	1000248	CLOVIS-908 N VILLA AVENUE	10.68	11	1095
KERN	1500203	BAKERSFIELD-CHESTER ST	11.26	11	1046
	1500242	EDISON	7.53	8	1081
	1500243	OILDALE-3311 MANOR	7.67	8	1009
	1500247	ARVIN	5.74	6	983
	1500248	SHAFTER	7.96	8	1077
MERCED	2400528	MERCED-385 S COFFEE AVE	8.74	9	761
SAN JOAQUIN	3900252	STOCKTON-HAZELTON ST	13.07	13	1056
STANISLAUS	5000568	MODESTO-814 14TH ST	10.72	11	1083
	5000573	TURLOCK-900 S MINARET	9.10	9	576
TULARE	5400568	VISALIA-CHURCH STREET	11.01	11	1073
<u>SOUTHEAST DESERT AIR BASIN</u>					
LOS ANGELES	7000096	LANCASTER-W PONDERA ST	9.67	10	1081
RIVERSIDE	3300137	PALM SPRINGS-FIRE STN	9.03	9	1005
SAN BERNARDINO	3600155	BARSTOW	10.53	11	929
	3600188	TRONA-MARKET ST	23.70	24	841
	3600191	TWENTYNINE PALMS-ADOBE	5.20	5	338
	3600201	HESPERIA-17288 OLIVES	7.81	8	904
	3600207	PHELAN	4.61	5	930
	3600209	VICTORVILLE-ARMAGOSA	11.22	11	831

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-4

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH COAST AIR BASIN</u>					
MENDOCINO	2300769	UKIAH-E GOBBI STREET	2.12	2	325
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
CONTRA COSTA	0700430	PITTSBURG	3.87	4	1093
	0700433	RICHMOND-13TH ST	2.79	3	1092
	0700434	MARTINEZ-JONES ST	3.63	4	1082
	0700437	CROCKETT-KENDALL AVE	4.32	4	1081
	0700440	CONCORD-2975 TREAT BLVD	3.27	3	1093
	0700441	RICHMOND-1065 7TH ST	2.96	3	1086
	0700442	BETHEL ISLAND RD	1.97	2	1074
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	3.55	4	1057
SOLANO	4800876	BENICIA	2.95	3	1093
	4800879	VALLEJO-TUOLUMNE	2.44	2	1095
<u>NORTH CENTRAL COAST AIR BASIN</u>					
SANTA CRUZ	4400851	DAVENPORT	3.24	3	999
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000833	MORRO BAY	1.32	1	1079
	4000834	NIPOMO	2.85	3	1017
	4000844	GROVER CITY-LESAGE DRIVE	2.67	3	1079
	4000845	SAN LUIS OBISPO-7020 LEWIS	2.24	2	1045
	4000846	NIPOMO MESA-950 GUADALUPE	12.89	13	1094
	4000849	NIPOMO-1300 GUADALUPE RD	10.89	10	1096
	4000851	ARROYO GRANDE-RALCOA	9.83	10	519
SANTA BARBARA	4200363	GOLETA	1.47	1	1051
	4200370	EL CAPITAN BEACH	0.94	1	1074
	4200381	LOMPOC-128 SOUTH H ST	2.04	2	1083
	4200387	SANTA MARIA-BROADWAY	2.61	3	1075
	4200390	VANDENBERG-STS POWER PLNT	0.96	1	1001
	4200392	JALAMA BEACH COUNTY PARK	1.27	1	884
	4200393	POINT CONCEPTION	1.21	1	940
	4200394	LOMPOC-HS & P	0.99	1	1004
	4200396	GAVIOTA-WEST (CHEVRON)	1.13	1	1002
	4200397	GAVIOTA-EAST (CHEVRON)	1.59	1	1004
	4200398	GAVIOTA TC-SITE A	0.72	1	967
	4200400	GAVIOTA TC-SITE C	0.80	1	883

TABLE E-4 (continued)

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH CENTRAL COAST AIR BASIN (continued)</u>					
VENTURA	5600434	SIMI VALLEY-5400 COCHRAN	1.94	2	1045
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000069	BURBANK	2.11	2	1093
	7000072	NORTH LONG BEACH	5.87	6	1093
	7000080	WHITTIER	2.94	3	1094
	7000084	LYNWOOD	3.40	3	1096
	7000087	LOS ANGELES-N MAIN	2.19	2	1095
	7000094	HAWTHORNE	9.48	9	1096
ORANGE	3000177	LA HABRA	2.37	2	1091
	3000190	LOS ALAMITOS-ORANGEWOOD	2.51	3	1096
	3000195	COSTA MESA-MESA VERDE DR	1.94	2	1091
RIVERSIDE	3300144	RIVERSIDE-RUBIDOUX	2.08	2	1096
SAN BERNARDINO	3600197	FONTANA-ARROW HWY	2.15	2	1085
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	8.30	8	1092
	8000115	ESCONDIDO-VALLEY PKWY	2.85	2	911
	8000123	SAN DIEGO-OVERLAND	3.99	4	904
	8000131	EL CAJON-REDWOOD AVE	2.61	3	903
	8000134	OCEANSIDE-1701 MISSION AVE	1.95	2	905
	8000138	SAN DIEGO-330A 12TH AVE	5.86	6	1090
	8000139	OTAY MESA-1100 PASEO INTL	5.91	6	1095
<u>SACRAMENTO VALLEY AIR BASIN</u>					
SACRAMENTO	3400294	NORTH HIGHLANDS-BLACKFOOT	2.20	2	1035
	3400295	SACRAMENTO-DEL PASO MANOR	2.68	3	897
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000246	FRESNO-3425 FIRST STREET	2.22	2	1080
KERN	1500203	BAKERSFIELD-CHESTER ST	2.58	3	1067
	1500243	OILDALE-3311 MANOR	1.96	2	1078

TABLE E-4 (continued)

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTHEAST DESERT AIR BASIN</u>					
SAN BERNARDINO	3600188	TRONA-MARKET ST	2.02	2	679
	3600191	TWENTYNINE PALMS-ADOBE	1.14	1	521
	3600201	HESPERIA-17288 OLIVES	1.70	2	1053
	3600207	PHELAN	1.86	1	1001
	3600209	VICTORVILLE-ARMAGOSA	2.23	2	932

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-5

Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in parts per hundred million (pphm)
 (State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
CONTRA COSTA	0700430	PITTSBURG	1.20	1	1078
	0700433	RICHMOND-13TH ST	1.12	1	1076
	0700434	MARTINEZ-JONES ST	1.04	1	1064
	0700437	CROCKETT-KENDALL AVE	1.31	1	1054
	0700440	CONCORD-2975 TREAT BLVD	0.87	1	1075
	0700441	RICHMOND-1065 7TH ST	1.00	1	1069
	0700442	BETHEL ISLAND RD	1.01	1	1051
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	1.28	1	319
SOLANO	4800876	BENICIA	1.05	1	1084
	4800879	VALLEJO-TUOLUMNE	1.18	1	1072
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000833	MORRO BAY	0.46	0	1066
	4000834	NIPOMO	0.72	1	995
	4000844	GROVER CITY-LESAGE DRIVE	0.94	0	1066
	4000845	SAN LUIS OBISPO-7020 LEWIS	0.79	1	931
	4000846	NIPOMO MESA-950 GUADALUPE	1.72	2	1074
	4000848	NIPOMO-1230 EUCALYPTUS RD	0.69	1	140
	4000849	NIPOMO-1300 GUADALUPE RD	2.06	2	1083
	4000851	ARROYO GRANDE-RALCOA	0.65	1	501
	4200363	GOLETA	0.35	0	944
	4200370	EL CAPITAN BEACH	0.63	0	958
SANTA BARBARA	4200381	LOMPOC-128 SOUTH H ST	0.32	0	1010
	4200387	SANTA MARIA-BROADWAY	0.94	1	1042
	4200390	VANDENBERG-STS POWER PLNT	0.63	0	901
	4200392	JALAMA BEACH COUNTY PARK	0.54	0	787
	4200393	POINT CONCEPTION	0.60	1	842
	4200394	LOMPOC-HS & P	0.62	0	974
	4200396	GAVIOTA-WEST (CHEVRON)	0.63	1	899
	4200397	GAVIOTA-EAST (CHEVRON)	0.61	0	912
	4200398	GAVIOTA TC-SITE A	0.59	0	920
	4200400	GAVIOTA TC-SITE C	0.61	0	857
VENTURA	5600428	ANACAPA ISLAND-LIGHTHOUSE	0.62	1	479
	5600434	SIMI VALLEY-5400 COCHRAN	0.55	1	1014

TABLE E-5 (continued)

**Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993**

24-Hour Average Concentrations in parts per hundred million (pphm)
(State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000069	BURBANK	1.13	1	1076
	7000072	NORTH LONG BEACH	1.62	2	1077
	7000080	WHITTIER	1.02	1	1079
	7000084	LYNWOOD	1.45	1	1086
	7000087	LOS ANGELES-N MAIN	1.16	1	1072
ORANGE	7000094	HAWTHORNE	2.03	2	1080
	3000177	LA HABRA	1.06	1	1076
	3000190	LOS ALAMITOS-ORANGEWOOD	1.01	1	1087
	3000195	COSTA MESA-MESA VERDE DR	0.97	1	1080
RIVERSIDE	3300144	RIVERSIDE-RUBIDOUX	0.96	1	1079
SAN BERNARDINO	3600197	FONTANA-ARROW HWY	0.95	1	1072
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	1.53	2	1052
	8000115	ESCONDIDO-VALLEY PKWY	1.70	1	877
	8000123	SAN DIEGO-OVERLAND	1.61	2	857
	8000131	EL CAJON-REDWOOD AVE	1.19	1	864
	8000134	OCEANSIDE-1701 MISSION AVE	1.00	1	838
	8000138	SAN DIEGO-330A 12TH AVE	1.65	2	1039
	8000139	OTAY MESA-1100 PASEO INTL	1.39	1	1062
<u>SACRAMENTO VALLEY AIR BASIN</u>					
SACRAMENTO	3400294	NORTH HIGHLANDS-BLACKFOOT	1.41	1	1002
	3400295	SACRAMENTO-DEL PASO MANOR	1.63	1	845
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000246	FRESNO-3425 FIRST STREET	1.77	1	985
KERN	1500203	BAKERSFIELD-CHESTER ST	1.29	1	1010
	1500243	OILDALE-3311 MANOR	1.11	1	1016
STANISLAUS	5000572	WESTLEY-TRUCK STOP	0.36	0	118

TABLE E-5 (continued)

Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in parts per hundred million (pphm)
(State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTHEAST DESERT AIR BASIN</u>					
SAN BERNARDINO	3600155	BARSTOW	0.84	1	60
	3600188	TRONA-MARKET ST	1.74	1	594
	3600190	VICTORVILLE-FAIRGROUNDS	1.39	1	65
	3600191	TWENTYNINE PALMS-ADOBE	0.54	1	503
	3600201	HESPERIA-17288 OLIVES	1.74	1	1007
	3600207	PHELAN	1.50	1	953
	3600209	VICTORVILLE-ARMAGOSA	1.71	1	874
	3600210	TRONA-ATHOL	1.44	1	267

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-6

**PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993**

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>NORTH COAST AIR BASIN</u>					
HUMBOLDT	1200503	EUREKA-H.D. 6TH AND I ST	85.42	79	171
MENDOCINO	2300753	WILLITS-FIREHOUSE	69.06	61	177
	2300764	UKIAH-COUNTY LIBRARY	59.65	55	172
SONOMA	4900886	CLOVERDALE	82.05	78	188
	4900895	GUERNEVILLE-CHURCH & 1ST	70.33	62	174
	4900898	HEALDSBURG-133 MATHESON	65.58	63	186
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
ALAMEDA	6000336	FREMONT-CHAPEL WAY	107.42	92	181
	6000340	LIVERMORE OLD FIRST ST	130.72	99	182
	6000343	SAN LEANDRO-CO HOSPITAL	85.04	72	182
CONTRA COSTA	0700433	RICHMOND-13TH ST	94.77	82	181
	0700440	CONCORD-2975 TREAT BLVD	99.28	90	180
	0700442	BETHEL ISLAND RD	118.80	118	182
MARIN	2100451	SAN RAFAEL	96.23	85	182
NAPA	2800783	NAPA-JEFFERSON ST	101.42	100	182
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	97.63	82	182
SAN MATEO	4100541	REDWOOD CITY	94.94	90	182
SANTA CLARA	4300377	SAN JOSE-MOORPARK	128.31	120	182
	4300382	SAN JOSE-4TH ST	135.83	128	331
	4300390	SAN JOSE-W SAN CARLOS ST	133.62	112	182
	4300391	SAN JOSE-528 TULLY ROAD	133.55	111	182
<u>NORTH CENTRAL COAST AIR BASIN</u>					
MONTEREY	2700544	SALINAS-II	67.40	55	171
	2700550	CARMEL VALLEY-35 FORD RD	45.30	37	98
	2700551	KING CITY-750 METZ ROAD	59.61	58	317
	2700552	MONTEREY-SILVER CLOUD CT	32.55	29	101
SAN BENITO	3500823	HOLLISTER-1979 FAIRVIEW	64.62	61	175
SANTA CRUZ	4400850	SANTA CRUZ-966 BOSTWICK	56.75	49	173
	4400851	DAVENPORT	116.16	102	46
	4400852	WATSONVILLE-444 AIRPORT	67.96	60	83
	4400853	SCOTTS VALLEY-VINE HILL	55.69	39	22

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000833	MORRO BAY	63.02	63	175
	4000834	NIPOMO	56.25	50	177
	4000835	SAN LUIS OBISPO-MARSH	52.70	52	175
	4000847	ATASCADERO-LEWIS AVENUE	83.07	78	166
	4000848	NIPOMO-1230 EUCALYPTUS RD	146.89	119	42
	4000849	NIPOMO-1300 GUADALUPE RD	132.89	124	303
	4000850	PASO ROBLES-235 SANTA FE	72.78	67	106
	4000851	ARROYO GRANDE-RALCOA	166.21	141	99
	4200356	SANTA MARIA-LIBRARY	67.06	59	157
	4200370	EL CAPITAN BEACH	58.82	52	175
SANTA BARBARA	4200381	LOMPOC-128 SOUTH H ST	52.23	44	52
	4200388	SANTA BARBARA-3 W CARILLO	77.63	67	173
	5600419	EL RIO-RIO MESA SCHOOL	72.79	59	70
VENTURA	5600421	VENTURA-MAIN ST	77.44	73	176
	5600427	PIRU-2SW	93.38	79	179
	5600430	OJAI-1768 MARICOPA HWY	64.29	62	178
	5600434	SIMI VALLEY-5400 COCHRAN	91.72	91	360
	5600435	THOUSAND OAKS-MOORPARK RD	76.04	67	87
	5600436	EL RIO-RIO MESA SCHOOL #2	67.54	63	106
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000060	AZUSA	140.01	137	177
	7000069	BURBANK	176.44	176	176
	7000072	NORTH LONG BEACH	96.39	92	157
	7000087	LOS ANGELES-N MAIN	147.55	137	179
	7000089	SANTA CLARITA-SAN FERNANDO	90.03	84	172
	7000094	HAWTHORNE	94.53	91	175
	3000176	ANAHEIM	133.56	116	176
	3000186	EL TORO	107.62	94	178
ORANGE	3000196	NEWPORT BEACH-2300 UNIV	95.44	89	90
	3300144	RIVERSIDE-RUBIDOUX	213.99	179	183
RIVERSIDE	3300149	PERRIS	141.23	131	178
	3300155	NORCO-NORCONIAN	177.97	164	61
	3300160	TEMECULA-30250 RANCHO CA	87.62	88	147
SAN BERNARDINO	3600171	ONTARIO AIRPORT	257.38	158	177
	3600181	LAKE GREGORY	108.20	105	124
	3600197	FONTANA-ARROW HWY	143.87	143	167

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH COAST AIR BASIN (continued)</u>					
SAN BERNARDINO (cont'd)	3600203	SAN BERNARDINO-FOURTH ST	164.79	163	179
	3600204	REDLANDS-DEARBORN	125.33	109	54
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000114	CHULA VISTA	76.38	73	180
	8000115	ESCONDIDO-VALLEY PKWY	115.80	96	30
	8000123	SAN DIEGO-OVERLAND	140.55	79	16
	8000131	EL CAJON-REDWOOD AVE	84.77	80	177
	8000134	OCEANSIDE-1701 MISSION AVE	87.60	81	353
	8000138	SAN DIEGO-330A 12TH AVE	95.83	73	30
	8000139	OTAY MESA-1100 PASEO INTL	167.26	127	31
<u>NORTHEAST PLATEAU AIR BASIN</u>					
MODOC	2500764	ALTURAS-600 S MAIN ST	117.08	101	42
	2500765	ALTURAS-202 W FOURTH ST	99.48	83	39
SISKIYOU	4700861	YREKA	76.56	74	160
<u>SACRAMENTO VALLEY AIR BASIN</u>					
BUTTE	0400628	CHICO-MANZANITA	97.93	83	113
	0400633	CHICO-SALEM ST	112.19	95	102
COLUSA	0600646	COLUSA-100 SUNRISE BLVD	109.71	102	196
GLENN	1100673	WILLOWS-VILLA AVE	94.43	81	217
PLACER	3100810	ROCKLIN-SIERRA COLLEGE	80.01	68	24
	3100813	AUBURN-DEWITT-C AVE	54.46	51	136
	3100816	LINCOLN	90.50	82	117
	3100820	ROCKLIN-5000 ROCKLIN RD	55.76	55	116
	3100822	ROSEVILLE-151 N SUNRISE	54.67	52	69
SACRAMENTO	3400277	SACTO-H.D. STOCKTON BLVD	104.31	98	176
	3400283	SACTO-BRANCH CENTER RD	101.15	95	156
	3400293	CITRUS HTS-SUNRISE BLVD	103.48	98	134
	3400294	NORTH HIGHLANDS-BLACKFOOT	93.95	79	139
	3400295	SACRAMENTO-DEL PASO MANOR	124.43	118	233
	3400305	SACRAMENTO-1309 T STREET	130.18	130	237
	3400307	SACRAMENTO-EARHART DRIVE	95.75	76	121

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SACRAMENTO VALLEY AIR BASIN (continued)</u>					
SHASTA	4500555	REDDING-H.D. ROOF	82.87	83	172
	4500556	BURNEY	103.34	91	109
	4500567	ANDERSON-2220 NORTH ST	90.65	72	29
SOLANO	4800881	VACAVILLE-MERCHANT	109.92	98	159
SUTTER	5100898	YUBA CITY-ALMOND STREET	101.99	95	212
TEHAMA	5200901	RED BLUFF	85.00	85	181
YOLO	5700569	WOODLAND-W MAIN ST	153.90	102	26
	5700570	WEST SACRAMENTO-15TH ST	129.14	121	161
	5700579	WOODLAND-40 SUTTER STREET	113.20	103	98
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
FRESNO	1000229	FIVE POINTS	198.40	190	97
	1000244	FRESNO-4706 E DRUMMOND	158.55	152	169
	1000246	FRESNO-3425 FIRST STREET	161.34	147	174
	1000248	CLOVIS-908 N VILLA AVENUE	126.50	123	158
KERN	1500203	BAKERSFIELD-CHESTER ST	205.17	186	349
	1500205	KERN REFUGE	134.42	119	142
	1500243	OILDALE-3311 MANOR	195.14	189	180
	1500250	TAFT COLLEGE	158.87	128	328
	1500251	BAKERSFIELD-CALIFORNIA ST	158.42	93	44
KINGS	1600701	HANFORD	193.15	164	151
	1600714	KETTLEMEN CITY-CAL TRANS	219.19	166	174
	1600715	CORCORAN-VAN DORSTEN AVE	263.08	239	336
MADERA	2000002	MADERA-LIBRARY	142.69	128	174
MERCED	2400521	MERCED	150.69	145	176
	2400522	LOS BANOS	131.61	114	172
SAN JOAQUIN	3900252	STOCKTON-HAZELTON ST	163.95	145	164
STANISLAUS	5000567	MODESTO-1100 I STREET	175.08	157	183
	5000571	CROWS LANDING-DAVIS RD	105.86	74	20
	5000572	WESTLEY-TRUCK STOP	138.91	99	20
	5000573	TURLOCK-900 S MINARET	192.97	150	46
TULARE	5400568	VISALIA-CHURCH STREET	158.02	135	322
	5400579	PORTERVILLE-COURTHOUSE	167.94	129	29

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>GREAT BASIN VALLEYS AIR BASIN</u>					
INYO	1400696	COSO JUNCTION	165.39	93	141
	1400697	KEELER	411.82	350	157
	1400699	LONE PINE-501 E LOCUST	71.56	64	172
	1400700	INDEPENDANCE-1 NNE PUMP#7	65.49	58	29
	1400710	OLANCHA-POST OFFICE	221.33	181	109
	1400717	BISHOP-156 N MAIN ST	121.46	84	26
	1400718	COSO JCT-10 MI EAST	62.82	60	93
	1400725	OLANCHA-661 FALL ROAD	483.66	346	23
	1400726	BISHOP-351 N MAIN STREET	104.44	71	46
	1400727	PEARSONVILLE-PEARSON ROAD	257.31	131	12
MONO	2600779	LEE VINING-SMS	41.84	41	151
	2600782	MONO LAKE-SIMUS RESIDENCE	562.53	493	214
	2600785	MAMMOTH LAKES-GATEWAY HC	197.79	178	167
	2600788	BODIE-11 MILES SE	40.29	26	20
	2600789	MONO LAKE-WARM SPRINGS RD	598.79	362	21
<u>SOUTHEAST DESERT AIR BASIN</u>					
IMPERIAL	1300693	BRAWLEY-401 MAIN ST	193.78	175	175
	1300694	EL CENTRO-150 9TH ST	173.13	166	161
KERN	1500211	CHINA LAKE	345.61	166	121
	1500249	MOJAVE-AIRPORT	77.78	65	149
	1500253	RIDGECREST-LAS FLORES	63.18	35	12
	1500254	INYOKERN AIRPORT	144.28	64	12
LOS ANGELES	7000096	LANCASTER-W PONDERA ST	295.47	215	175
RIVERSIDE	3300137	PALM SPRINGS-FIRE STN	148.68	124	176
	3300150	BANNING-ALLESANDRO	96.75	89	160
	3300157	INDIO-JACKSON	213.81	189	179
	3300161	BLYTHE-449 W MURPHY ST	212.20	112	51
SAN BERNARDINO	3600155	BARSTOW	105.45	85	179
	3600188	TRONA-MARKET ST	132.28	114	166
	3600191	TWENTYNINE PALMS-ADOBE	180.68	139	158
	3600201	HESPERIA-17288 OLIVES	78.37	73	122
	3600208	LUCERNE VALLEY-MIDDLE SCH	197.03	117	157
	3600209	VICTORVILLE-ARMAGOSA	91.46	88	151
	3600210	TRONA-ATHOL	62.97	56	57

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>MOUNTAIN COUNTIES AIR BASIN</u>					
EL DORADO	0900690	PLACERVILLE-GOLD NUGGET	77.01	62	99
MARIPOSA	2200742	YOSEMITE VILLAGE	215.90	210	166
NEVADA	2900794	TRUCKEE-FIRE STATION	146.28	145	110
	2900796	GRASS VALLEY-HENDERSON	53.17	52	159
	2900797	NEVADA CITY-WILLOW VALLEY	44.74	41	55
	2900798	GRASS VALLEY-16607 ANNIE	51.51	44	100
	2900799	GLENSHIRE-FIRE STATION	142.30	119	89
PLACER	3100818	COLFAX-CITY HALL	59.62	58	137
PLUMAS	3200821	QUINCY-267 N CHURCH ST	170.38	162	165
	3200822	GRAEAGLE	52.59	42	181
	3200823	CHESTER-222 FIRST AVE	134.19	82	15
SIERRA	4600854	LOYALTON-309 W 3RD STREET	89.59	85	165
<u>LAKE COUNTY AIR BASIN</u>					
LAKE	1700713	LAKEPORT-LAKEPORT BLVD	32.48	31	177
<u>LAKE TAHOE AIR BASIN</u>					
EL DORADO	0900684	LK TAHOE-3377 TAHOE BVD	101.49	85	108
	0900691	S LAKE TAHOE-3337 SANDY	107.47	92	53

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-7

Sulfates Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
 (State Sulfates Standard is 25 ug/m3, not to be equalled or exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN FRANCISCO BAY AREA AIR BASIN</u>					
ALAMEDA	6000336	FREMONT-CHAPEL WAY	9.09	8.6	362
	6000340	LIVERMORE OLD FIRST ST	7.78	7.1	174
CONTRA COSTA	0700430	PITTSBURG	14.15	13.8	364
	0700433	RICHMOND-13TH ST	14.01	13.0	182
	0700440	CONCORD-2975 TREAT BLVD	11.25	10.3	182
	0700442	BETHEL ISLAND RD	11.10	10.1	182
MARIN	2100451	SAN RAFAEL	14.22	13.5	179
NAPA	2800783	NAPA-JEFFERSON ST	9.33	9.3	182
SAN FRANCISCO	9000306	SAN FRANCISCO-10 ARKANSAS	12.76	12.8	188
SAN MATEO	4100541	REDWOOD CITY	9.73	9.2	182
SANTA CLARA	4300377	SAN JOSE-MOORPARK	8.86	8.3	182
	4300382	SAN JOSE-4TH ST	10.12	9.4	184
	4300390	SAN JOSE-W SAN CARLOS ST	10.18	8.7	182
SOLANO	4800879	VALLEJO-TUOLUMNE	9.82	9.6	181
SONOMA	4900893	SANTA ROSA-837 FIFTH ST	8.77	7.1	182
<u>SOUTH COAST AIR BASIN</u>					
LOS ANGELES	7000060	AZUSA	21.78	19.2	179
	7000069	BURBANK	20.86	20.1	174
	7000072	NORTH LONG BEACH	21.33	19.9	181
	7000084	LYNWOOD	24.79	22.4	180
	7000085	PICO RIVERA	21.16	18.3	175
	7000087	LOS ANGELES-N MAIN	25.45	23.1	178
	7000088	PASADENA-WILSON	20.62	20.1	177
	7000091	WEST LOS ANGELES-VA HOSP	21.10	20.9	174
	7000094	HAWTHORNE	26.37	24.7	179
ORANGE	3000176	ANAHEIM	18.55	16.0	182
	3000190	LOS ALAMITOS-ORANGEWOOD	18.83	16.9	179
RIVERSIDE	3300144	RIVERSIDE-RUBIDOUX	16.23	14.8	177
	3300146	RIVERSIDE-MAGNOLIA	14.30	12.8	182
SAN BERNARDINO	3600175	UPLAND ARB	18.33	17.1	182
	3600197	FONTANA-ARROW HWY	18.76	16.7	177
	3600203	SAN BERNARDINO-FOURTH ST	18.74	18.3	180

TABLE E-7 (continued)

Sulfates Expected Peak Day Concentrations
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)
 (State Sulfates Standard is 25 ug/m3, not to be equalled or exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SAN DIEGO AIR BASIN</u>					
SAN DIEGO	8000131	EL CAJON-REDWOOD AVE	14.09	13.0	162
	8000138	SAN DIEGO-330A 12TH AVE	17.26	14.0	81
<u>SACRAMENTO VALLEY AIR BASIN</u>					
SACRAMENTO	3400277	SACTO-H.D. STOCKTON BLVD	7.97	7.5	81
<u>SAN JOAQUIN VALLEY AIR BASIN</u>					
KERN	1500203	BKRSFLD-CHESTER ST	11.01	10.0	213
	1500243	OILDALE-3311 MANOR	9.99	10.0	115
	1500250	TAFT COLLEGE	9.60	9.0	89
<u>SOUTHEAST DESERT AIR BASIN</u>					
SAN BERNARDINO	3600188	TRONA-MARKET ST	32.90	32.5	139

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-8

Hydrogen Sulfide Expected Peak Day Concentrations
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)
(State Hydrogen Sulfide Standard is 3 pphm, not to be equalled or exceeded)

<u>AIR BASIN/COUNTY</u>	<u>SITE #</u>	<u>SITE NAME</u>	<u>EPDC*</u>	<u>DV*</u>	<u>OBS*</u>
<u>SOUTH CENTRAL COAST AIR BASIN</u>					
SAN LUIS OBISPO	4000845	SAN LUIS OBISPO-7020 LEWIS	0.13	0	1006
SANTA BARBARA	4200370	EL CAPITAN BEACH	0.95	1	723
	4200401	SANTA BARBARA-UC W CAMPUS	0.79	1	987
<u>SOUTHEAST DESERT AIR BASIN</u>					
SAN BERNARDINO	3600188	TRONA-MARKET ST	29.80	28	967
<u>LAKE COUNTY AIR BASIN</u>					
LAKE	1700720	ANDERSON SPRINGS	2.30	1	1096
	1700725	HOBERGS-1 MILE NW	1.46	2	1093
	1700728	GLENBROOK-HIGH VALLEY RD	1.45	1	1091

* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.



**South Coast
AIR QUALITY MANAGEMENT DISTRICT**

21865 E. Copley Drive, Diamond Bar, CA 91765-4182 (909) 396-2000

May 26, 1993

Mr. Ron Rothacker
California Air Resources Board
2020 L Street
Sacramento, California 95814

Dear Mr. Rothacker:

This is a follow-up to our telephone conversation on May 19, 1993 regarding ambient lead levels at one of our monitoring stations located adjacent to Quenell Enterprises, Inc., Daelco Division, a lead oxide manufacturer in the City of Commerce. During our conversation, you indicated that you were concerned about the elevated monthly average lead levels for March 1993, measured at 1.83 ug/m^3 , and that you were considering the possibility of designating the Los Angeles basin as nonattainment for lead, based on this one reading.

In response to your inquiry, and as indicated to you during our telephone conversation, I would like to provide you with some information and reasons why such consideration for redesignation of the Los Angeles basin to nonattainment is inappropriate. As you know, the ambient lead standard is 1.5 ug/m^3 averaged monthly for the state standard and averaged quarterly for the federal standard. The average monthly lead reading at the L.A. Paper Box Monitoring Station located adjacent to the Daelco facility was 1.83 ug/m^3 for March 1993. The average quarterly reading for the first quarter of 1993 at this site was 1.38 ug/m^3 , and for April 1993 was 1.11 ug/m^3 . Attached is a summary of readings from January through April 1993.

The District is aware of the toxic nature of lead compounds and is committed to protecting the public from unhealthful levels of exposure to such hazardous compounds. However, we are extremely concerned about the ARB's possible use of the March lead reading from this monitoring site as the sole basis to consider designating our basin as nonattainment lead for the following reasons:

1. District personnel have inspected Daelco's facility three times since March 1993 to determine the cause of the higher lead readings in March. Our inspections revealed that, since early-1992 Daelco has initiated a number of modifications to their equipment to minimize or eliminate potential lead emissions from several sources within their facility. These modifications include:
 - a) Installation of HEPA filters on all baghouse exhausts to reduce particulate and lead emissions by greater than 90 percent.
 - b) Redesign of lids and seals on the reactor pots.

c) Application of a computer controlled process to minimize the potential for fugitive and upset emissions from the Barton Oxide Manufacturing System.

In addition, Daelco has initiated the following activities:

- a) Construction to replace the chain-link fence with a ten foot block wall,
- b) Removal of several furnaces and blenders, and shut down of two of the four product lines with drum or bag loading operations and reduction of operation in a third line,
- c) Construction of enclosures for the truck-loading operation and three of the four baghouses,
- d) Application of computer controlled process to the remaining systems.

Work on a number of the above modifications began in February of this year. All of the above modifications and constructions are expected to be completed by October of this year.

The elevated ambient lead readings during March 1993 were probably due to the construction and modification activities that are on-going at the plant for the purpose of reducing the overall lead emissions from this facility. Nevertheless, the District has already put Daelco on notice that they must take all necessary measures to ensure that their lead emissions are minimized in order to prevent any further exceedances. In addition we have started evaluation of the possible health effects associated with such ambient lead levels in cooperation with the Los Angeles County Health Services. For your information, I have attached copies of letters from Daelco explaining their remodernization activities and the subsequent District letters to Daelco and the Los Angeles County Health Services dated April 29 and May 17, 1993, respectively.

2. In September 1992, the South Coast Air Quality Management District adopted Rule 1420 - Emissions Standard for Lead. We are the only district that has adopted such a stringent rule for the control of lead emissions. Rule 1420 requires facilities that process more than two tons of lead annually to submit a compliance plan by July 1, 1993. Based on the approved compliance plan facilities would have to implement various measures to reduce and control their sources of lead emissions. Rule 1420 was adopted, in part, to address similar concerns regarding potential localized lead emissions from lead processing facilities. The majority of modifications underway at Daelco are an attempt to comply with the requirements of Rule 1420.

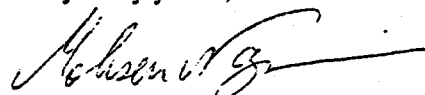
3. The monitoring station adjacent to Daelco is located in a vacant lot and is within 200 feet of the fence line and facility's operations and construction activities. This monitor is installed and operated as part of a lead characterization study funded by an EPA grant to collect lead data directly downwind from lead processing facilities. Although this monitor is installed in accordance with the EPA criteria, it was not intended for use to determine attainment status of the basin. Because of the elevated lead concentrations measured at this site, the District has increased the frequency of monitoring from once in six days to once in three days. Also we have established upwind monitors in close-by residential area and at the nearby Bell Gardens High School. As such, the readings from these two additional monitors had readings of 0.05 ug/m^3 and 0.04 ug/m^3 for the month of March 1993. We believe that these two additional monitors provide a more representative picture of the ambient lead concentrations in that general area.

In conclusion, the District shares your concerns about the hazards associated with exposure to lead and will take every measure necessary to minimize the public's exposure to unhealthful levels of lead emissions. We also recognize that the general criteria used by ARB for nonattainment designation is based on one exceedance of the state standard in any three years. However, it is also our understanding that the same regulatory criteria allows for exceedances due to "highly irregular and infrequent exceedances" or "exceptional events" (Section 70303(b), Title 17, CCR). The construction and modification at Daelco could be classified as an exceptional event. Further, due to the District's adoption of Rule 1420, all lead processing facilities in our basin, including Daelco, are, or will be, undergoing modifications which will result in significant reductions in lead emissions in our basin. Finally, the ambient lead concentrations detected at such "Micro-Scale" monitoring sites should not be used as the primary basis for designating the Los Angeles basin nonattainment, due to the extreme localized influence on such readings.

Therefore, due to the above reasons, we believe that it is inappropriate to consider redesignation of the Los Angeles basin as nonattainment for lead solely due to the readings obtained at this monitoring station.

Please call me at (909) 396-2662 if you have any questions or need any additional information.

Very truly yours,


Mohsen Nazemi
Senior Manager
Air Toxics
Stationary Source Compliance

MN:SCS(MN2/ROTHACKR)
Attachments

cc: Dr. James M. Lents
Pat Leyden
Diana Love
Chung Liu
James Boyd, ARB
Lisa Finley, EPA